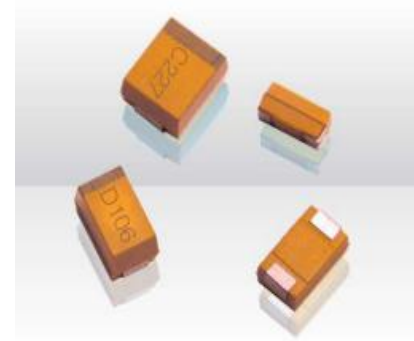


## CA55 Series

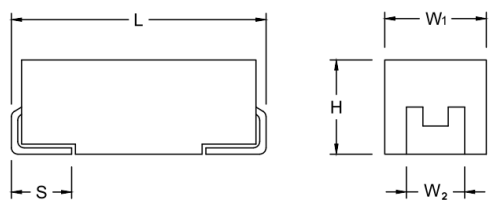
### Conductive Polymer Chip Tantalum Capacitors

#### Features

- Epoxy molded encapsulation, Chip, Easy for integration, Polarized;
- Extremely low ESR , Volumetrically efficient , Stable in electrical & storage performances , Long life-span, High reliability;
- Typical applications include DC/DC converters , notebook PCs , portable electronics , telecommunications (mobile phone and base station ) , displays ,SSD,HDD and USB;
- Operative Standard: QJ/PWV517-2013;



#### Dimensions(mm)



| Case Code | EIA Code | EIA Metric | L         | W <sub>1</sub> | H         | W <sub>2</sub> | S         |
|-----------|----------|------------|-----------|----------------|-----------|----------------|-----------|
| A         | 1206     | 3216-16    | 3.20±0.20 | 1.60±0.20      | 1.60±0.20 | 0.80±0.20      | 1.20±0.20 |
| B         | 1210     | 3528-19    | 3.50±0.20 | 2.80±0.20      | 1.90±0.20 | 0.80±0.20      | 2.20±0.20 |
| C         | 2312     | 6032-25    | 6.00±0.20 | 3.20±0.20      | 2.50±0.20 | 1.30±0.20      | 2.20±0.20 |
| H         | 2917     | 7343-20    | 7.30±0.20 | 4.30±0.20      | 2.00±0.20 | 1.30±0.20      | 2.40±0.20 |
| D         | 2917     | 7343-28    | 7.30±0.20 | 4.30±0.20      | 2.80±0.20 | 1.30±0.20      | 2.40±0.20 |
| E         | 2917     | 7343-43    | 7.30±0.40 | 4.30±0.40      | 4.10±0.40 | 1.30±0.20      | 2.40±0.20 |
| V         | 2924     | 7361-36    | 7.30±0.40 | 6.10±0.40      | 3.60±0.40 | 1.35±0.20      | 3.00±0.20 |
| W         | 2924     | 7361-41    | 7.30±0.40 | 6.10±0.40      | 4.10±0.40 | 1.35±0.20      | 3.00±0.20 |

#### How to order

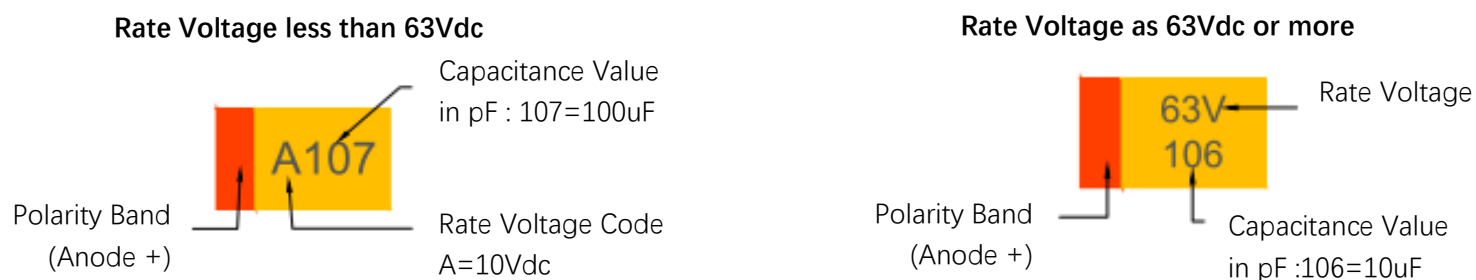
|                      |                   |   |   |                                    |   |   |   |
|----------------------|-------------------|---|---|------------------------------------|---|---|---|
| <b>CA55</b><br>└───┘ | <b>-</b><br>└───┘ | <b>D</b><br>└───┘                           | <b>010</b><br>└───┘   | <b>M</b><br>└───┘                  | <b>107</b><br>└───┘   | <b>T</b><br>└───┘                       | <b>E080</b><br>└───┘  |
| Type                 | Separator         | Case Size<br><small>See table above</small> | Rated DC voltage<br><small>2R5=2.5Vdc; 004=4Vdc; 6R3=6.3Vdc; 010=10Vdc 016=16Vdc; 020=20Vdc 025=25Vdc; 035=35Vdc 050=50Vdc; 063=63Vdc 075=75Vdc; 100=100Vdc</small> | Tolerance<br><small>M=±20%</small> | Capacitance Code<br><small>pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)</small> | Package<br><small>T=Reel B=Bulk</small> | ESR<br><small>Last three digits specify ESR in mΩ (080=80 mΩ)</small> |

#### Environmental Compliance

RoHS Compliant (6/6) according to Directive 2002/95/EC when ordered with 100%Sn solder, Gold plated or Non-magnetic 100% Sn solder.



#### Marking



#### Technical Specifications

| Technical Data                   | All technical data relate to an ambient temperature of +25°C |
|----------------------------------|--|
| Operating Temperature Range      | -55°C to +105°C  |
| Rated Capacitance Range          | 0.47 ~ 1000 μF at 100 Hz                                     |
| Capacitance Tolerance            | M tolerance (±20%);  |
| Leakage Current DCL              | 0.1CV (μA) at rated voltage after 5 minutes                  |
| Equivalent Series Resistance ESR | Refer to Part Number Electrical Specifications Table         |
| Termination Finished             | Sn Plating (standard), Gold and SnPb Plating upon request    |
| Resistance to soldering heat     | 3×260°C peak for max. 10s reflow                             |

**CAPACITANCE AND RATED VOLTAGE RANGE  
(LETTER DENOTES CASE SIZE & ESR)**

| Rated Voltage (V) | 2.5                                     | 4   | 6.3  | 10                                    | 16                                       |
|-------------------|---|---|--|---------------------------------------|--|
| Capacitance (μF)  | Case Code & ESR                         |   |  |                                       |  |
| 1                 |   |   |  |                                       | B(300),                                  |
| 1.5               |   |   |  |                                       | B(300),                                  |
| 2.2               |   |   |  |                                       | B(300),                                  |
| 3.3               |   |   |  |                                       | A(250), B(150,300),                      |
| 4.7               |   |   |  | A(250),                               | A(250), B(100,150,300), C(150),          |
| 6.8               |   |   |  | A(180,250),                           | A(200), B(100,150,300), C(150),          |
| 10                |   |   | A(120,250,300),                                    | A(80,120,300), B(100),                | A(200), B(100,200,300), C(150),          |
| 15                |   | A(120,300), B(100),                         | A(300), B(90),                                     | A(80,200), B(90), C(70),              | B(100,150,300), C(70,150), D(80),        |
| 22                |   | A(300), B(90), C(70),                       | A(90,300), B(90), C(70),                           | A(80), B(90,300), C(70),              | B(150), C(70,150), D(60,80), E(80),      |
| 33                |   | A(70,300), B(90), C(70),                    | A(70,120,200), B(40,90,200), C(70,100),            | B(40), B(90,200), C(70,100),          | C(70,150), H(45,70), D(60,80), E(80),    |
| 47                | A(90),                                  | A(70,200), B(90), C(70),                    | A(150,200), B(40,90), C(70),                       | B(35,70,90), C(70,100),               | C(150), H(45,80), D(35,70,90), E(50,80), |
| 68                | A(70,250),                              | A(250), B(25,40,80), C(70),                 | A(150), B(35,55,80), C(70,100), D(60),             | C(45,70), H(45,60,100), D(45,60,100), | H(50,90), D(50,80), E(50,80),            |
| 100               | A(200), B(25,40), B(70),                | A(150,200,300), B(25,40,80), C(70),         | A(70), B(25,45,70), C(25,45,70), H(45), D(60),     | C(25,45,70), H(25,55), D(45,60,80),   | H(50), D(60,80), E(40,80),               |
| 150               | B(70),                                  | B(25,40,70), C(25,45,100), H(25,45), D(60), | B(25,45,70), C(25,55), H(25,45), D(25,60),         | C(55), H(25,55), D(25,40,60), E(50),  | V(80), W(80), E(40,80),                  |
| 220               | B(25,55,70), C(25,45), H(25,45), D(40), | B(35,70), C(25,55), H(25,45), D(25,65),     | B(25,70,200), C(25,45), H(25,50), D(40,60), E(50), | H(25,50), D(25,60), E(50),            | V(40), V(80), W(80), E(35,50,80),        |
| 330               | B(35,70), C(25,45), H(25,40), D(25,60), | C(25,45), H(25,50), D(25,60), E(50),        | H(25,50), D(25,60), E(50),                         | V(40), E(35,50),                      | V(40), V(80), W(80), E(25,50,80),        |
| 470               | C(25,45), H(25,50), D(25,40,60),        | H(25,50), D(25,60), E(50),                  | H(35,55), D(30), V(40), E(35,50),                  |                                       |  |
| 680               | D(25,40), E(50),                        | D(25), V(40), E(35,50),                     | E(25),   |                                       |  |
| 1000              | D(30), V(40), E(50),                    |   |  |                                       |  |

Continue

| Rated Voltage (V) | 20   | 25   | 35                                       | 50                               | 63                             |
|-------------------|--|--|--|----------------------------------|--------------------------------|
| Capacitance (μF)  | Case Code & ESR                                  |  |  |                                  |                                |
| 0.68              |  | B(300),  | B(350),                                  | B(350,400),                      |                                |
| 1                 | B(300),  | B(300)   | B(350),                                  | B(300,350)                       | B(300), C(200,300), D(120),    |
| 1.5               | B(300),  | B(300), C(150),                                    | B(200,350), C(200),                      | B(300,350), C(200,300),          | C(200,300), D(120),            |
| 2.2               | A(250), B(150,300),                              | B(250,300), C(100,150),                            | B(200,350), C(200),                      | B(350), C(200,300),              | C(200), D(120),                |
| 3.3               | A(250), B(150,00), C(150),                       | B(250,300), C(100,150),                            | B(200,350), C(200),                      | C(200), D(100),                  | C(200), D(120),                |
| 4.7               | B(150,300), C(100,150),                          | B(150,250,300), C(100,150),                        | B(200,350), C(200),                      | C(200), D(100),                  | C(200), D(75,120,300), E(120), |
| 6.8               | B(150,300), C(100,150),                          | B(90,150,300), C(100,150),                         | C(200), D(90),                           | C(200), H(70,90), D(70,100,120), | D(120), E(100,150),            |
| 10                | B(100,150,300), C(100,150),                      | B(100,150,300), C(100,150), D(90),                 | B(200), C(200), H(70,120), D(90), E(90), | D(90,120), E(70,100),            | D(120), E(50,100,150),         |
| 15                | B(90), C(80,150), D(70,80),                      | B(100,150), C(150), H(90), D(90), E(80),           | C(200), H(100,125), D(70,100), E(90),    | V(100), E(70,100),               | V(120), E(35,120,150),         |
| 22                | C(100,150), H(45,70), H(90), D(60,80), E(50,80), | B(150), C(100,150), H(60,90), D(60,80,100), E(80), | D(70,100), E(90),                        | V(100), W(100), E(75,100),       | W(120),                        |
| 33                | C(150), H(70), D(60,80), E(50,80),               | H(60,100), D(60,80,100), E(80),                    | D(65), D(100), V(90), E(55,70,90),       | V(100), W(100), E(75),           |                                |
| 47                | C(150), H(55,70,90), D(55,80), E(50,80),         | D(60,80,100), E(50,80),                            | V(90), W(90), E(30,55,90),               | W(100),                          |                                |
| 68                | D(55,80), E(45,80),                              | D(80), V(80), E(50,80),                            | W(90),                                   |                                  |                                |
| 100               | D(55), V(80), E(45,80),                          | V(80), W(80), E(60,80),                            |  |                                  |                                |
| 150               | V(80), W(80), E(80),                             | V(80), W(80),                                      |  |                                  |                                |
| 220               | V(80), W(80), E(80),                             |  |  |                                  |                                |

## RATING & PART NUMBER REFERENCE

| Part Number        | Rated Voltage | Category Voltage | capacitance | Case Code | Max. DCL | Max. DF      | Max. ESR      | 100kHz RMS Current (mA) |       |        | Category Temperature | MSL |
|--------------------|---------------|------------------|-------------|-----------|----------|--------------|---------------|-------------------------|-------|--------|----------------------|-----|
|                    | V             | V                |             |           | @+25C°   | @+25C°,100Hz | @+25C°,100KHz | +45C°                   | +85C° | +105C° | C°                   |     |
|                    |               |                  | μF          |           | μA       | %            | mΩ            |                         |       |        |                      |     |
| CA55-A2R5#476TE090 | 2.5           | 2.3              | 47          | A         | 11.8     | 8            | 90            | 850                     | 595   | 212    | 105                  | 3   |
| CA55-A2R5#686TE070 | 2.5           | 2.3              | 68          | A         | 17.0     | 8            | 70            | 964                     | 675   | 241    | 105                  | 3   |
| CA55-A2R5#686TE250 | 2.5           | 2.3              | 68          | A         | 17.0     | 6            | 250           | 510                     | 357   | 127    | 105                  | 3   |
| CA55-A2R5#107TE200 | 2.5           | 2.3              | 100         | A         | 25.0     | 6            | 200           | 570                     | 399   | 143    | 105                  | 3   |
| CA55-B2R5#107TE025 | 2.5           | 2.3              | 100         | B         | 25.0     | 8            | 25            | 1732                    | 1212  | 433    | 105                  | 3   |
| CA55-B2R5#107TE040 | 2.5           | 2.3              | 100         | B         | 25.0     | 8            | 40            | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-B2R5#107TE070 | 2.5           | 2.3              | 100         | B         | 25.0     | 8            | 70            | 1035                    | 725   | 259    | 105                  | 3   |
| CA55-B2R5#157TE070 | 2.5           | 2.3              | 150         | B         | 37.5     | 6            | 70            | 1035                    | 725   | 259    | 105                  | 3   |
| CA55-B2R5#227TE025 | 2.5           | 2.3              | 220         | B         | 55.0     | 8            | 25            | 1732                    | 1212  | 433    | 105                  | 3   |
| CA55-B2R5#227TE055 | 2.5           | 2.3              | 220         | B         | 55.0     | 8            | 55            | 1168                    | 817   | 292    | 105                  | 3   |
| CA55-B2R5#227TE070 | 2.5           | 2.3              | 220         | B         | 55.0     | 8            | 70            | 1035                    | 725   | 259    | 105                  | 3   |
| CA55-C2R5#227TE025 | 2.5           | 2.3              | 220         | C         | 55.0     | 8            | 25            | 1897                    | 1328  | 474    | 105                  | 3   |
| CA55-C2R5#227TE045 | 2.5           | 2.3              | 220         | C         | 55.0     | 8            | 45            | 1414                    | 990   | 354    | 105                  | 3   |
| CA55-D2R5#227TE040 | 2.5           | 2.3              | 220         | D         | 55.0     | 10           | 40            | 1620                    | 1134  | 405    | 105                  | 3   |
| CA55-H2R5#227TE025 | 2.5           | 2.3              | 220         | H         | 55.0     | 10           | 25            | 2236                    | 1565  | 559    | 105                  | 3   |
| CA55-H2R5#227TE045 | 2.5           | 2.3              | 220         | H         | 55.0     | 10           | 45            | 1667                    | 1167  | 417    | 105                  | 3   |
| CA55-B2R5#337TE035 | 2.5           | 2.3              | 330         | B         | 82.5     | 8            | 35            | 1464                    | 1025  | 366    | 105                  | 3   |
| CA55-B2R5#337TE070 | 2.5           | 2.3              | 330         | B         | 82.5     | 8            | 70            | 1035                    | 725   | 259    | 105                  | 3   |
| CA55-C2R5#337TE025 | 2.5           | 2.3              | 330         | C         | 82.5     | 8            | 25            | 1897                    | 1328  | 474    | 105                  | 3   |
| CA55-C2R5#337TE045 | 2.5           | 2.3              | 330         | C         | 82.5     | 8            | 45            | 1414                    | 990   | 354    | 105                  | 3   |
| CA55-D2R5#337TE025 | 2.5           | 2.3              | 330         | D         | 82.5     | 10           | 25            | 2049                    | 1435  | 512    | 105                  | 3   |
| CA55-D2R5#337TE060 | 2.5           | 2.3              | 330         | D         | 82.5     | 10           | 60            | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-H2R5#337TE025 | 2.5           | 2.3              | 330         | H         | 82.5     | 10           | 25            | 2236                    | 1565  | 559    | 105                  | 3   |
| CA55-H2R5#337TE040 | 2.5           | 2.3              | 330         | H         | 82.5     | 10           | 40            | 1768                    | 1237  | 442    | 105                  | 3   |
| CA55-C2R5#477TE025 | 2.5           | 2.3              | 470         | C         | 117.5    | 8            | 25            | 1897                    | 1328  | 474    | 105                  | 3   |
| CA55-C2R5#477TE045 | 2.5           | 2.3              | 470         | C         | 117.5    | 8            | 45            | 1414                    | 990   | 354    | 105                  | 3   |
| CA55-D2R5#477TE025 | 2.5           | 2.3              | 470         | D         | 117.5    | 10           | 25            | 2049                    | 1435  | 512    | 105                  | 3   |
| CA55-D2R5#477TE040 | 2.5           | 2.3              | 470         | D         | 117.5    | 6            | 40            | 1620                    | 1134  | 405    | 105                  | 3   |
| CA55-D2R5#477TE060 | 2.5           | 2.3              | 470         | D         | 117.5    | 10           | 60            | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-H2R5#477TE025 | 2.5           | 2.3              | 470         | H         | 117.5    | 6            | 25            | 2236                    | 1565  | 559    | 105                  | 3   |
| CA55-H2R5#477TE050 | 2.5           | 2.3              | 470         | H         | 117.5    | 6            | 50            | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-D2R5#687TE025 | 2.5           | 2.3              | 680         | D         | 170.0    | 10           | 25            | 2049                    | 1435  | 512    | 105                  | 3   |
| CA55-D2R5#687TE040 | 2.5           | 2.3              | 680         | D         | 170.0    | 10           | 40            | 1620                    | 1134  | 405    | 105                  | 3   |
| CA55-E2R5#687TE050 | 2.5           | 2.3              | 680         | E         | 170.0    | 10           | 50            | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-D2R5#108TE030 | 2.5           | 2.3              | 1000        | D         | 250.0    | 10           | 30            | 1871                    | 1310  | 468    | 105                  | 3   |
| CA55-E2R5#108TE050 | 2.5           | 2.3              | 1000        | E         | 250.0    | 10           | 50            | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-V2R5#108TE040 | 2.5           | 2.3              | 1000        | V         | 250.0    | 10           | 40            | 1936                    | 1356  | 484    | 105                  | 3   |
| CA55-A004#156TE120 | 4             | 3.6              | 15          | A         | 6.0      | 10           | 120           | 736                     | 515   | 184    | 105                  | 3   |
| CA55-A004#156TE300 | 4             | 3.6              | 15          | A         | 6.0      | 6            | 300           | 465                     | 326   | 116    | 105                  | 3   |
| CA55-B004#156TE100 | 4             | 3.6              | 15          | B         | 6.0      | 10           | 100           | 866                     | 606   | 217    | 105                  | 3   |
| CA55-A004#226TE300 | 4             | 3.6              | 22          | A         | 8.8      | 6            | 300           | 465                     | 326   | 116    | 105                  | 3   |
| CA55-B004#226TE090 | 4             | 3.6              | 22          | B         | 8.8      | 10           | 90            | 913                     | 639   | 228    | 105                  | 3   |
| CA55-C004#226TE070 | 4             | 3.6              | 22          | C         | 8.8      | 10           | 70            | 1134                    | 794   | 283    | 105                  | 3   |
| CA55-A004#336TE070 | 4             | 3.6              | 33          | A         | 13.2     | 8            | 70            | 964                     | 675   | 241    | 105                  | 3   |
| CA55-A004#336TE300 | 4             | 3.6              | 33          | A         | 13.2     | 6            | 300           | 465                     | 326   | 116    | 105                  | 3   |
| CA55-B004#336TE090 | 4             | 3.6              | 33          | B         | 13.2     | 10           | 90            | 913                     | 639   | 228    | 105                  | 3   |
| CA55-C004#336TE070 | 4             | 3.6              | 33          | C         | 13.2     | 10           | 70            | 1134                    | 794   | 283    | 105                  | 3   |
| CA55-A004#476TE070 | 4             | 3.6              | 47          | A         | 18.8     | 8            | 70            | 964                     | 675   | 241    | 105                  | 3   |
| CA55-A004#476TE200 | 4             | 3.6              | 47          | A         | 18.8     | 6            | 200           | 570                     | 399   | 143    | 105                  | 3   |
| CA55-B004#476TE090 | 4             | 3.6              | 47          | B         | 18.8     | 10           | 90            | 913                     | 639   | 228    | 105                  | 3   |
| CA55-C004#476TE070 | 4             | 3.6              | 47          | C         | 18.8     | 10           | 70            | 1134                    | 794   | 283    | 105                  | 3   |
| CA55-A004#686TE250 | 4             | 3.6              | 68          | A         | 27.2     | 6            | 250           | 510                     | 357   | 127    | 105                  | 3   |
| CA55-B004#686TE025 | 4             | 3.6              | 68          | B         | 27.2     | 8            | 25            | 1732                    | 1212  | 433    | 105                  | 3   |
| CA55-B004#686TE040 | 4             | 3.6              | 68          | B         | 27.2     | 8            | 40            | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-B004#686TE080 | 4             | 3.6              | 68          | B         | 27.2     | 8            | 80            | 968                     | 678   | 242    | 105                  | 3   |

- 1 Please do not use multimeter through the measuring procedures.
- 2 Capacitance and DF measured at :100Hz, U<sub>+</sub>=2.2°-1.0V, U<sub>-</sub>=1.0°-0.5V, Frequency=100Hz.Test only applied in series equivalent circuit.
- 3 Voltage derating is applied at +105C°. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- 4 Special size and demand could consult with us.

## RATING & PART NUMBER REFERENCE

| Part Number        | Rated Voltage | Category Voltage | capacitance | Case Code | Max. DCL | Max. DF       | Max. ESR       | 100kHz RMS Current (mA) |       |        | Category Temperature | MSL |
|--------------------|---------------|------------------|-------------|-----------|----------|---------------|----------------|-------------------------|-------|--------|----------------------|-----|
|                    | V             | V                |             |           | @+25C°   | @+25C° ,100Hz | @+25C° ,100KHz | +45C°                   | +85C° | +105C° | C°                   |     |
|                    |               |                  | μF          |           | μA       | %             | mΩ             |                         |       |        |                      |     |
| CA55-C004#686TE070 | 4             | 3.6              | 68          | C         | 27.2     | 10            | 70             | 1134                    | 794   | 283    | 105                  | 3   |
| CA55-A004#107TE150 | 4             | 3.6              | 100         | A         | 40.0     | 8             | 150            | 658                     | 461   | 165    | 105                  | 3   |
| CA55-A004#107TE200 | 4             | 3.6              | 100         | A         | 40.0     | 8             | 200            | 570                     | 399   | 143    | 105                  | 3   |
| CA55-A004#107TE300 | 4             | 3.6              | 100         | A         | 40.0     | 10            | 300            | 465                     | 326   | 116    | 105                  | 3   |
| CA55-B004#107TE025 | 4             | 3.6              | 100         | B         | 40.0     | 8             | 25             | 1732                    | 1212  | 433    | 105                  | 3   |
| CA55-B004#107TE040 | 4             | 3.6              | 100         | B         | 40.0     | 8             | 40             | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-B004#107TE080 | 4             | 3.6              | 100         | B         | 40.0     | 8             | 80             | 968                     | 678   | 242    | 105                  | 3   |
| CA55-C004#107TE070 | 4             | 3.6              | 100         | C         | 40.0     | 10            | 70             | 1134                    | 794   | 283    | 105                  | 3   |
| CA55-B004#157TE025 | 4             | 3.6              | 150         | B         | 60.0     | 8             | 25             | 1732                    | 1212  | 433    | 105                  | 3   |
| CA55-B004#157TE040 | 4             | 3.6              | 150         | B         | 60.0     | 8             | 40             | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-B004#157TE070 | 4             | 3.6              | 150         | B         | 60.0     | 8             | 70             | 1035                    | 725   | 259    | 105                  | 3   |
| CA55-C004#157TE025 | 4             | 3.6              | 150         | C         | 60.0     | 8             | 25             | 1897                    | 1328  | 474    | 105                  | 3   |
| CA55-C004#157TE045 | 4             | 3.6              | 150         | C         | 60.0     | 8             | 45             | 1414                    | 990   | 354    | 105                  | 3   |
| CA55-C004#157TE100 | 4             | 3.6              | 150         | C         | 60.0     | 8             | 100            | 949                     | 664   | 237    | 105                  | 3   |
| CA55-D004#157TE060 | 4             | 3.6              | 150         | D         | 60.0     | 10            | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-H004#157TE025 | 4             | 3.6              | 150         | H         | 60.0     | 10            | 25             | 2236                    | 1565  | 559    | 105                  | 3   |
| CA55-H004#157TE045 | 4             | 3.6              | 150         | H         | 60.0     | 6             | 45             | 1667                    | 1167  | 417    | 105                  | 3   |
| CA55-B004#227TE035 | 4             | 3.6              | 220         | B         | 88.0     | 8             | 35             | 1464                    | 1025  | 366    | 105                  | 3   |
| CA55-B004#227TE070 | 4             | 3.6              | 220         | B         | 88.0     | 8             | 70             | 1035                    | 725   | 259    | 105                  | 3   |
| CA55-C004#227TE025 | 4             | 3.6              | 220         | C         | 88.0     | 8             | 25             | 1897                    | 1328  | 474    | 105                  | 3   |
| CA55-C004#227TE055 | 4             | 3.6              | 220         | C         | 88.0     | 8             | 55             | 1279                    | 895   | 320    | 105                  | 3   |
| CA55-D004#227TE025 | 4             | 3.6              | 220         | D         | 88.0     | 10            | 25             | 2049                    | 1435  | 512    | 105                  | 3   |
| CA55-D004#227TE065 | 4             | 3.6              | 220         | D         | 88.0     | 10            | 65             | 1271                    | 890   | 318    | 105                  | 3   |
| CA55-H004#227TE025 | 4             | 3.6              | 220         | H         | 88.0     | 10            | 25             | 2236                    | 1565  | 559    | 105                  | 3   |
| CA55-H004#227TE045 | 4             | 3.6              | 220         | H         | 88.0     | 10            | 45             | 1667                    | 1167  | 417    | 105                  | 3   |
| CA55-C004#337TE025 | 4             | 3.6              | 330         | C         | 132.0    | 8             | 25             | 1897                    | 1328  | 474    | 105                  | 3   |
| CA55-C004#337TE045 | 4             | 3.6              | 330         | C         | 132.0    | 8             | 45             | 1414                    | 990   | 354    | 105                  | 3   |
| CA55-D004#337TE025 | 4             | 3.6              | 330         | D         | 132.0    | 10            | 25             | 2049                    | 1435  | 512    | 105                  | 3   |
| CA55-D004#337TE060 | 4             | 3.6              | 330         | D         | 132.0    | 10            | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-E004#337TE050 | 4             | 3.6              | 330         | E         | 132.0    | 10            | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-H004#337TE025 | 4             | 3.6              | 330         | H         | 132.0    | 10            | 25             | 2236                    | 1565  | 559    | 105                  | 3   |
| CA55-H004#337TE050 | 4             | 3.6              | 330         | H         | 132.0    | 6             | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-D004#477TE025 | 4             | 3.6              | 470         | D         | 188.0    | 10            | 25             | 2049                    | 1435  | 512    | 105                  | 3   |
| CA55-D004#477TE060 | 4             | 3.6              | 470         | D         | 188.0    | 10            | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-E004#477TE050 | 4             | 3.6              | 470         | E         | 188.0    | 10            | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-H004#477TE025 | 4             | 3.6              | 470         | H         | 188.0    | 6             | 25             | 2236                    | 1565  | 559    | 105                  | 3   |
| CA55-H004#477TE050 | 4             | 3.6              | 470         | H         | 188.0    | 6             | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-D004#687TE025 | 4             | 3.6              | 680         | D         | 272.0    | 10            | 25             | 2049                    | 1435  | 512    | 105                  | 3   |
| CA55-E004#687TE035 | 4             | 3.6              | 680         | E         | 272.0    | 10            | 35             | 1890                    | 1323  | 472    | 105                  | 3   |
| CA55-E004#687TE050 | 4             | 3.6              | 680         | E         | 272.0    | 10            | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-V004#687TE040 | 4             | 3.6              | 680         | V         | 272.0    | 10            | 40             | 1936                    | 1356  | 484    | 105                  | 3   |
| CA55-A6R3#106TE120 | 6.3           | 5.7              | 10          | A         | 6.3      | 10            | 120            | 736                     | 515   | 184    | 105                  | 3   |
| CA55-A6R3#106TE250 | 6.3           | 5.7              | 10          | A         | 6.3      | 10            | 250            | 510                     | 357   | 127    | 105                  | 3   |
| CA55-A6R3#106TE300 | 6.3           | 5.7              | 10          | A         | 6.3      | 6             | 300            | 465                     | 326   | 116    | 105                  | 3   |
| CA55-A6R3#156TE300 | 6.3           | 5.7              | 15          | A         | 9.5      | 6             | 300            | 465                     | 326   | 116    | 105                  | 3   |
| CA55-B6R3#156TE090 | 6.3           | 5.7              | 15          | B         | 9.5      | 10            | 90             | 913                     | 639   | 228    | 105                  | 3   |
| CA55-A6R3#226TE090 | 6.3           | 5.7              | 22          | A         | 13.9     | 8             | 90             | 850                     | 595   | 212    | 105                  | 3   |
| CA55-A6R3#226TE300 | 6.3           | 5.7              | 22          | A         | 13.9     | 6             | 300            | 465                     | 326   | 116    | 105                  | 3   |
| CA55-B6R3#226TE090 | 6.3           | 5.7              | 22          | B         | 13.9     | 10            | 90             | 913                     | 639   | 228    | 105                  | 3   |
| CA55-C6R3#226TE070 | 6.3           | 5.7              | 22          | C         | 13.9     | 10            | 70             | 1134                    | 794   | 283    | 105                  | 3   |
| CA55-A6R3#336TE070 | 6.3           | 5.7              | 33          | A         | 20.8     | 8             | 70             | 964                     | 675   | 241    | 105                  | 3   |
| CA55-A6R3#336TE120 | 6.3           | 5.7              | 33          | A         | 20.8     | 8             | 120            | 736                     | 515   | 184    | 105                  | 3   |
| CA55-A6R3#336TE200 | 6.3           | 5.7              | 33          | A         | 20.8     | 6             | 200            | 570                     | 399   | 143    | 105                  | 3   |
| CA55-B6R3#336TE040 | 6.3           | 5.7              | 33          | B         | 20.8     | 8             | 40             | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-B6R3#336TE090 | 6.3           | 5.7              | 33          | B         | 20.8     | 10            | 90             | 913                     | 639   | 228    | 105                  | 3   |

- 1 Please do not use multimeter through the measuring procedures.
- 2 Capacitance and DF measured at :100Hz, U<sub>-</sub>=2.2°-1.0V, U<sub>-</sub>=1.0°-0.5V, Frequency=100Hz.Test only applied in series equivalent circuit.
- 3 Voltage derating is applied at +105C°. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- 4 Special size and demand could consult with us.

RATING & PART NUMBER REFERENCE

| Part Number        | Rated Voltage | Category Voltage | capacitance | Case Code | Max. DCL | Max. DF       | Max. ESR       | 100kHz RMS Current (mA) |       |        | Category Temperature | MSL |
|--------------------|---------------|------------------|-------------|-----------|----------|---------------|----------------|-------------------------|-------|--------|----------------------|-----|
|                    | V             | V                |             |           | @+25C°   | @+25C° ,100Hz | @+25C° ,100KHz | +45C°                   | +85C° | +105C° | C°                   |     |
|                    |               |                  | μF          |           | μA       | %             | mΩ             |                         |       |        |                      |     |
| CA55-B6R3#336TE200 | 6.3           | 5.7              | 33          | B         | 20.8     | 6             | 200            | 612                     | 429   | 153    | 105                  | 3   |
| CA55-C6R3#336TE070 | 6.3           | 5.7              | 33          | C         | 20.8     | 10            | 70             | 1134                    | 794   | 283    | 105                  | 3   |
| CA55-C6R3#336TE100 | 6.3           | 5.7              | 33          | C         | 20.8     | 8             | 100            | 949                     | 664   | 237    | 105                  | 3   |
| CA55-A6R3#476TE150 | 6.3           | 5.7              | 47          | A         | 29.6     | 8             | 150            | 658                     | 461   | 165    | 105                  | 3   |
| CA55-A6R3#476TE200 | 6.3           | 5.7              | 47          | A         | 29.6     | 6             | 200            | 570                     | 399   | 143    | 105                  | 3   |
| CA55-B6R3#476TE040 | 6.3           | 5.7              | 47          | B         | 29.6     | 8             | 40             | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-B6R3#476TE090 | 6.3           | 5.7              | 47          | B         | 29.6     | 10            | 90             | 913                     | 639   | 228    | 105                  | 3   |
| CA55-C6R3#476TE070 | 6.3           | 5.7              | 47          | C         | 29.6     | 10            | 70             | 1134                    | 794   | 283    | 105                  | 3   |
| CA55-A6R3#686TE150 | 6.3           | 5.7              | 68          | A         | 42.8     | 8             | 150            | 658                     | 461   | 165    | 105                  | 3   |
| CA55-B6R3#686TE035 | 6.3           | 5.7              | 68          | B         | 42.8     | 8             | 35             | 1464                    | 1025  | 366    | 105                  | 3   |
| CA55-B6R3#686TE055 | 6.3           | 5.7              | 68          | B         | 42.8     | 8             | 55             | 1168                    | 817   | 292    | 105                  | 3   |
| CA55-B6R3#686TE080 | 6.3           | 5.7              | 68          | B         | 42.8     | 8             | 80             | 968                     | 678   | 242    | 105                  | 3   |
| CA55-C6R3#686TE070 | 6.3           | 5.7              | 68          | C         | 42.8     | 10            | 70             | 1134                    | 794   | 283    | 105                  | 3   |
| CA55-C6R3#686TE100 | 6.3           | 5.7              | 68          | C         | 42.8     | 8             | 100            | 949                     | 664   | 237    | 105                  | 3   |
| CA55-D6R3#686TE060 | 6.3           | 5.7              | 68          | D         | 42.8     | 10            | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-A6R3#107TE070 | 6.3           | 5.7              | 100         | A         | 63.0     | 8             | 70             | 964                     | 675   | 241    | 105                  | 3   |
| CA55-B6R3#107TE025 | 6.3           | 5.7              | 100         | B         | 63.0     | 8             | 25             | 1732                    | 1212  | 433    | 105                  | 3   |
| CA55-B6R3#107TE045 | 6.3           | 5.7              | 100         | B         | 63.0     | 8             | 45             | 1291                    | 904   | 323    | 105                  | 3   |
| CA55-B6R3#107TE070 | 6.3           | 5.7              | 100         | B         | 63.0     | 8             | 70             | 1035                    | 725   | 259    | 105                  | 3   |
| CA55-C6R3#107TE025 | 6.3           | 5.7              | 100         | C         | 63.0     | 8             | 25             | 1897                    | 1328  | 474    | 105                  | 3   |
| CA55-C6R3#107TE045 | 6.3           | 5.7              | 100         | C         | 63.0     | 8             | 45             | 1414                    | 990   | 354    | 105                  | 3   |
| CA55-C6R3#107TE070 | 6.3           | 5.7              | 100         | C         | 63.0     | 10            | 70             | 1134                    | 794   | 283    | 105                  | 3   |
| CA55-D6R3#107TE060 | 6.3           | 5.7              | 100         | D         | 63.0     | 10            | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-H6R3#107TE045 | 6.3           | 5.7              | 100         | H         | 63.0     | 10            | 45             | 1667                    | 1167  | 417    | 105                  | 3   |
| CA55-B6R3#157TE025 | 6.3           | 5.7              | 150         | B         | 94.5     | 8             | 25             | 1732                    | 1212  | 433    | 105                  | 3   |
| CA55-B6R3#157TE045 | 6.3           | 5.7              | 150         | B         | 94.5     | 8             | 45             | 1291                    | 904   | 323    | 105                  | 3   |
| CA55-B6R3#157TE070 | 6.3           | 5.7              | 150         | B         | 94.5     | 8             | 70             | 1035                    | 725   | 259    | 105                  | 3   |
| CA55-C6R3#157TE025 | 6.3           | 5.7              | 150         | C         | 94.5     | 8             | 25             | 1897                    | 1328  | 474    | 105                  | 3   |
| CA55-C6R3#157TE055 | 6.3           | 5.7              | 150         | C         | 94.5     | 8             | 55             | 1279                    | 895   | 320    | 105                  | 3   |
| CA55-D6R3#157TE025 | 6.3           | 5.7              | 150         | D         | 94.5     | 10            | 25             | 2049                    | 1435  | 512    | 105                  | 3   |
| CA55-D6R3#157TE060 | 6.3           | 5.7              | 150         | D         | 94.5     | 10            | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-H6R3#157TE025 | 6.3           | 5.7              | 150         | H         | 94.5     | 10            | 25             | 2236                    | 1565  | 559    | 105                  | 3   |
| CA55-H6R3#157TE045 | 6.3           | 5.7              | 150         | H         | 94.5     | 10            | 45             | 1667                    | 1167  | 417    | 105                  | 3   |
| CA55-B6R3#227TE025 | 6.3           | 5.7              | 220         | B         | 138.6    | 8             | 25             | 1732                    | 1212  | 433    | 105                  | 3   |
| CA55-B6R3#227TE070 | 6.3           | 5.7              | 220         | B         | 138.6    | 8             | 70             | 1035                    | 725   | 259    | 105                  | 3   |
| CA55-B6R3#227TE200 | 6.3           | 5.7              | 220         | B         | 138.6    | 10            | 200            | 612                     | 429   | 153    | 105                  | 3   |
| CA55-C6R3#227TE025 | 6.3           | 5.7              | 220         | C         | 138.6    | 8             | 25             | 1897                    | 1328  | 474    | 105                  | 3   |
| CA55-C6R3#227TE045 | 6.3           | 5.7              | 220         | C         | 138.6    | 8             | 45             | 1414                    | 990   | 354    | 105                  | 3   |
| CA55-D6R3#227TE040 | 6.3           | 5.7              | 220         | D         | 138.6    | 10            | 40             | 1620                    | 1134  | 405    | 105                  | 3   |
| CA55-D6R3#227TE060 | 6.3           | 5.7              | 220         | D         | 138.6    | 10            | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-E6R3#227TE050 | 6.3           | 5.7              | 220         | E         | 138.6    | 10            | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-H6R3#227TE025 | 6.3           | 5.7              | 220         | H         | 138.6    | 10            | 25             | 2236                    | 1565  | 559    | 105                  | 3   |
| CA55-H6R3#227TE050 | 6.3           | 5.7              | 220         | H         | 138.6    | 6             | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-D6R3#337TE025 | 6.3           | 5.7              | 330         | D         | 207.9    | 10            | 25             | 2049                    | 1435  | 512    | 105                  | 3   |
| CA55-D6R3#337TE060 | 6.3           | 5.7              | 330         | D         | 207.9    | 10            | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-E6R3#337TE050 | 6.3           | 5.7              | 330         | E         | 207.9    | 10            | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-H6R3#337TE025 | 6.3           | 5.7              | 330         | H         | 207.9    | 10            | 25             | 2236                    | 1565  | 559    | 105                  | 3   |
| CA55-H6R3#337TE050 | 6.3           | 5.7              | 330         | H         | 207.9    | 12            | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-D6R3#477TE030 | 6.3           | 5.7              | 470         | D         | 296.1    | 10            | 30             | 1871                    | 1310  | 468    | 105                  | 3   |
| CA55-E6R3#477TE035 | 6.3           | 5.7              | 470         | E         | 296.1    | 10            | 35             | 1890                    | 1323  | 472    | 105                  | 3   |
| CA55-E6R3#477TE050 | 6.3           | 5.7              | 470         | E         | 296.1    | 10            | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-H6R3#477TE035 | 6.3           | 5.7              | 470         | H         | 296.1    | 10            | 35             | 1890                    | 1323  | 472    | 105                  | 3   |
| CA55-H6R3#477TE055 | 6.3           | 5.7              | 470         | H         | 296.1    | 10            | 55             | 1508                    | 1055  | 377    | 85                   | 3   |
| CA55-V6R3#477TE040 | 6.3           | 5.7              | 470         | V         | 296.1    | 10            | 40             | 1936                    | 1356  | 484    | 105                  | 3   |
| CA55-E6R3#687TE025 | 6.3           | 5.7              | 680         | E         | 428.4    | 10            | 25             | 2236                    | 1565  | 559    | 105                  | 3   |

- 1 Please do not use multimeter through the measuring procedures.
- 2 Capacitance and DF measured at :100Hz, U<sub>r</sub>=2.2°-1.0V, U<sub>-</sub>=1.0°-0.5V, Frequency=100Hz.Test only applied in series equivalent circuit.
- 3 Voltage derating is applied at +105C°. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- 4 Special size and demand could consult with us.

## RATING &amp; PART NUMBER REFERENCE

| Part Number        | Rated Voltage | Category Voltage | capacitance | Case Code | Max. DCL<br>@+25°C | Max. DF<br>@+25°C,100Hz | Max. ESR<br>@+25°C,100KHz | 100kHz RMS Current (mA) |      |     | Category Temperature<br>C° | MSL |
|--------------------|---------------|------------------|-------------|-----------|--------------------|-------------------------|---------------------------|-------------------------|------|-----|----------------------------|-----|
|                    | V             | V                |             |           |                    |                         |                           | μF                      | μA   | %   |                            |     |
| CA55-A010#475TE250 | 10            | 9.0              | 4.7         | A         | 4.7                | 10                      | 250                       | 510                     | 357  | 127 | 105                        | 3   |
| CA55-A010#685TE180 | 10            | 9.0              | 6.8         | A         | 6.8                | 10                      | 180                       | 601                     | 421  | 150 | 105                        | 3   |
| CA55-A010#685TE250 | 10            | 9.0              | 6.8         | A         | 6.8                | 10                      | 250                       | 510                     | 357  | 127 | 105                        | 3   |
| CA55-A010#106TE080 | 10            | 9.0              | 10          | A         | 10.0               | 8                       | 80                        | 901                     | 631  | 225 | 105                        | 3   |
| CA55-A010#106TE120 | 10            | 9.0              | 10          | A         | 10.0               | 8                       | 120                       | 736                     | 515  | 184 | 105                        | 3   |
| CA55-A010#106TE300 | 10            | 9.0              | 10          | A         | 10.0               | 10                      | 300                       | 465                     | 326  | 116 | 105                        | 3   |
| CA55-B010#106TE100 | 10            | 9.0              | 10          | B         | 10.0               | 10                      | 100                       | 866                     | 606  | 217 | 105                        | 3   |
| CA55-A010#156TE080 | 10            | 9.0              | 15          | A         | 15.0               | 8                       | 80                        | 901                     | 631  | 225 | 105                        | 3   |
| CA55-A010#156TE200 | 10            | 9.0              | 15          | A         | 15.0               | 6                       | 200                       | 570                     | 399  | 143 | 105                        | 3   |
| CA55-B010#156TE090 | 10            | 9.0              | 15          | B         | 15.0               | 10                      | 90                        | 913                     | 639  | 228 | 105                        | 3   |
| CA55-C010#156TE070 | 10            | 9.0              | 15          | C         | 15.0               | 10                      | 70                        | 1134                    | 794  | 283 | 105                        | 3   |
| CA55-A010#226TE080 | 10            | 9.0              | 22          | A         | 22.0               | 8                       | 80                        | 901                     | 631  | 225 | 105                        | 3   |
| CA55-B010#226TE090 | 10            | 9.0              | 22          | B         | 22.0               | 10                      | 90                        | 913                     | 639  | 228 | 105                        | 3   |
| CA55-B010#226TE300 | 10            | 9.0              | 22          | B         | 22.0               | 6                       | 300                       | 500                     | 350  | 125 | 105                        | 3   |
| CA55-C010#226TE070 | 10            | 9.0              | 22          | C         | 22.0               | 10                      | 70                        | 1134                    | 794  | 283 | 105                        | 3   |
| CA55-B010#336TE040 | 10            | 9.0              | 33          | B         | 33.0               | 8                       | 40                        | 1369                    | 959  | 342 | 105                        | 3   |
| CA55-B010#336TE090 | 10            | 9.0              | 33          | B         | 33.0               | 10                      | 90                        | 913                     | 639  | 228 | 105                        | 3   |
| CA55-B010#336TE200 | 10            | 9.0              | 33          | B         | 33.0               | 6                       | 200                       | 612                     | 429  | 153 | 105                        | 3   |
| CA55-C010#336TE070 | 10            | 9.0              | 33          | C         | 33.0               | 10                      | 70                        | 1134                    | 794  | 283 | 105                        | 3   |
| CA55-C010#336TE100 | 10            | 9.0              | 33          | C         | 33.0               | 6                       | 100                       | 949                     | 664  | 237 | 105                        | 3   |
| CA55-B010#476TE035 | 10            | 9.0              | 47          | B         | 47.0               | 8                       | 35                        | 1464                    | 1025 | 366 | 105                        | 3   |
| CA55-B010#476TE070 | 10            | 9.0              | 47          | B         | 47.0               | 8                       | 70                        | 1035                    | 725  | 259 | 105                        | 3   |
| CA55-B010#476TE090 | 10            | 9.0              | 47          | B         | 47.0               | 10                      | 90                        | 913                     | 639  | 228 | 105                        | 3   |
| CA55-C010#476TE070 | 10            | 9.0              | 47          | C         | 47.0               | 10                      | 70                        | 1134                    | 794  | 283 | 105                        | 3   |
| CA55-C010#476TE100 | 10            | 9.0              | 47          | C         | 47.0               | 8                       | 100                       | 949                     | 664  | 237 | 105                        | 3   |
| CA55-C010#686TE045 | 10            | 9.0              | 68          | C         | 68.0               | 8                       | 45                        | 1414                    | 990  | 354 | 105                        | 3   |
| CA55-C010#686TE070 | 10            | 9.0              | 68          | C         | 68.0               | 10                      | 70                        | 1134                    | 794  | 283 | 105                        | 3   |
| CA55-D010#686TE045 | 10            | 9.0              | 68          | D         | 68.0               | 6                       | 45                        | 1528                    | 1069 | 382 | 105                        | 3   |
| CA55-D010#686TE060 | 10            | 9.0              | 68          | D         | 68.0               | 10                      | 60                        | 1323                    | 926  | 331 | 105                        | 3   |
| CA55-D010#686TE100 | 10            | 9.0              | 68          | D         | 68.0               | 10                      | 100                       | 1025                    | 717  | 256 | 105                        | 3   |
| CA55-H010#686TE045 | 10            | 9.0              | 68          | H         | 68.0               | 10                      | 45                        | 1667                    | 1167 | 417 | 105                        | 3   |
| CA55-H010#686TE060 | 10            | 9.0              | 68          | H         | 68.0               | 10                      | 60                        | 1443                    | 1010 | 361 | 105                        | 3   |
| CA55-H010#686TE100 | 10            | 9.0              | 68          | H         | 68.0               | 10                      | 100                       | 1118                    | 783  | 280 | 105                        | 3   |
| CA55-C010#107TE025 | 10            | 9.0              | 100         | C         | 100.0              | 8                       | 25                        | 1897                    | 1328 | 474 | 105                        | 3   |
| CA55-C010#107TE045 | 10            | 9.0              | 100         | C         | 100.0              | 8                       | 45                        | 1414                    | 990  | 354 | 105                        | 3   |
| CA55-C010#107TE070 | 10            | 9.0              | 100         | C         | 100.0              | 10                      | 70                        | 1134                    | 794  | 283 | 105                        | 3   |
| CA55-D010#107TE045 | 10            | 9.0              | 100         | D         | 100.0              | 6                       | 45                        | 1528                    | 1069 | 382 | 105                        | 3   |
| CA55-D010#107TE060 | 10            | 9.0              | 100         | D         | 100.0              | 10                      | 60                        | 1323                    | 926  | 331 | 105                        | 3   |
| CA55-D010#107TE080 | 10            | 9.0              | 100         | D         | 100.0              | 10                      | 80                        | 1146                    | 802  | 286 | 105                        | 3   |
| CA55-H010#107TE025 | 10            | 9.0              | 100         | H         | 100.0              | 10                      | 25                        | 2236                    | 1565 | 559 | 105                        | 3   |
| CA55-H010#107TE055 | 10            | 9.0              | 100         | H         | 100.0              | 10                      | 55                        | 1508                    | 1055 | 377 | 105                        | 3   |
| CA55-C010#157TE055 | 10            | 9.0              | 150         | C         | 150.0              | 8                       | 55                        | 1279                    | 895  | 320 | 105                        | 3   |
| CA55-D010#157TE025 | 10            | 9.0              | 150         | D         | 150.0              | 10                      | 25                        | 2049                    | 1435 | 512 | 105                        | 3   |
| CA55-D010#157TE040 | 10            | 9.0              | 150         | D         | 150.0              | 10                      | 40                        | 1620                    | 1134 | 405 | 105                        | 3   |
| CA55-D010#157TE060 | 10            | 9.0              | 150         | D         | 150.0              | 10                      | 60                        | 1323                    | 926  | 331 | 105                        | 3   |
| CA55-E010#157TE050 | 10            | 9.0              | 150         | E         | 150.0              | 10                      | 50                        | 1581                    | 1107 | 395 | 105                        | 3   |
| CA55-H010#157TE025 | 10            | 9.0              | 150         | H         | 150.0              | 10                      | 25                        | 2236                    | 1565 | 559 | 105                        | 3   |
| CA55-H010#157TE055 | 10            | 9.0              | 150         | H         | 150.0              | 6                       | 55                        | 1508                    | 1055 | 377 | 105                        | 3   |
| CA55-D010#227TE025 | 10            | 9.0              | 220         | D         | 220.0              | 10                      | 25                        | 2049                    | 1435 | 512 | 105                        | 3   |
| CA55-D010#227TE060 | 10            | 9.0              | 220         | D         | 220.0              | 10                      | 60                        | 1323                    | 926  | 331 | 105                        | 3   |
| CA55-E010#227TE050 | 10            | 9.0              | 220         | E         | 220.0              | 10                      | 50                        | 1581                    | 1107 | 395 | 105                        | 3   |
| CA55-H010#227TE025 | 10            | 9.0              | 220         | H         | 220.0              | 10                      | 25                        | 2236                    | 1565 | 559 | 105                        | 3   |
| CA55-H010#227TE050 | 10            | 9.0              | 220         | H         | 220.0              | 6                       | 50                        | 1581                    | 1107 | 395 | 105                        | 3   |
| CA55-E010#337TE025 | 10            | 9.0              | 330         | E         | 330.0              | 10                      | 35                        | 1890                    | 1323 | 472 | 105                        | 3   |
| CA55-E010#337TE050 | 10            | 9.0              | 330         | E         | 330.0              | 10                      | 50                        | 1581                    | 1107 | 395 | 105                        | 3   |

- 1 Please do not use multimeter through the measuring procedures.
- 2 Capacitance and DF measured at :100Hz, U<sub>+</sub>=2.2°-1.0V, U<sub>-</sub>=1.0°-0.5V, Frequency=100Hz.Test only applied in series equivalent circuit.
- 3 Voltage derating is applied at +105C°. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- 4 Special size and demand could consult with us.



## RATING &amp; PART NUMBER REFERENCE

| Part Number        | Rated Voltage | Category Voltage | capacitance | Case Code | Max. DCL<br>@+25C° | Max. DF<br>@+25C°.100Hz | Max. ESR<br>@+25C°.100KHz | 100kHz RMS Current (mA) |      |     | Category Temperature<br>C° | MSL |
|--------------------|---------------|------------------|-------------|-----------|--------------------|-------------------------|---------------------------|-------------------------|------|-----|----------------------------|-----|
|                    | V             | V                |             |           |                    |                         |                           | μF                      | μA   | %   |                            |     |
| CA55-V010#337TE040 | 10            | 9.0              | 330         | V         | 330.0              | 10                      | 40                        | 1936                    | 1356 | 484 | 105                        | 3   |
| CA55-B016#105TE300 | 16            | 12.8             | 1           | B         | 1.6                | 10                      | 300                       | 500                     | 350  | 125 | 105                        | 3   |
| CA55-B016#155TE300 | 16            | 12.8             | 1.5         | B         | 2.4                | 10                      | 300                       | 500                     | 350  | 125 | 105                        | 3   |
| CA55-B016#225TE300 | 16            | 12.8             | 2.2         | B         | 3.5                | 10                      | 300                       | 500                     | 350  | 125 | 105                        | 3   |
| CA55-A016#335TE250 | 16            | 12.8             | 3.3         | A         | 5.3                | 10                      | 250                       | 510                     | 357  | 127 | 105                        | 3   |
| CA55-B016#335TE150 | 16            | 12.8             | 3.3         | B         | 5.3                | 10                      | 150                       | 707                     | 495  | 177 | 105                        | 3   |
| CA55-B016#335TE300 | 16            | 12.8             | 3.3         | B         | 5.3                | 10                      | 300                       | 500                     | 350  | 125 | 105                        | 3   |
| CA55-A016#475TE250 | 16            | 12.8             | 4.7         | A         | 7.5                | 10                      | 250                       | 510                     | 357  | 127 | 105                        | 3   |
| CA55-B016#475TE100 | 16            | 12.8             | 4.7         | B         | 7.5                | 10                      | 100                       | 866                     | 606  | 217 | 105                        | 3   |
| CA55-B016#475TE150 | 16            | 12.8             | 4.7         | B         | 7.5                | 10                      | 150                       | 707                     | 495  | 177 | 105                        | 3   |
| CA55-B016#475TE300 | 16            | 12.8             | 4.7         | B         | 7.5                | 10                      | 300                       | 500                     | 350  | 125 | 105                        | 3   |
| CA55-C016#475TE150 | 16            | 12.8             | 4.7         | C         | 7.5                | 10                      | 150                       | 775                     | 542  | 194 | 105                        | 3   |
| CA55-A016#685TE200 | 16            | 12.8             | 6.8         | A         | 10.9               | 6                       | 200                       | 570                     | 399  | 143 | 105                        | 3   |
| CA55-B016#685TE100 | 16            | 12.8             | 6.8         | B         | 10.9               | 10                      | 100                       | 866                     | 606  | 217 | 105                        | 3   |
| CA55-B016#685TE150 | 16            | 12.8             | 6.8         | B         | 10.9               | 10                      | 150                       | 707                     | 495  | 177 | 105                        | 3   |
| CA55-B016#685TE300 | 16            | 12.8             | 6.8         | B         | 10.9               | 10                      | 300                       | 500                     | 350  | 125 | 105                        | 3   |
| CA55-C016#685TE150 | 16            | 12.8             | 6.8         | C         | 10.9               | 10                      | 150                       | 775                     | 542  | 194 | 105                        | 3   |
| CA55-A016#106TE200 | 16            | 12.8             | 10          | A         | 16.0               | 6                       | 200                       | 570                     | 399  | 143 | 105                        | 3   |
| CA55-B016#106TE100 | 16            | 12.8             | 10          | B         | 16.0               | 10                      | 100                       | 866                     | 606  | 217 | 105                        | 3   |
| CA55-B016#106TE200 | 16            | 12.8             | 10          | B         | 16.0               | 6                       | 200                       | 612                     | 429  | 153 | 105                        | 3   |
| CA55-B016#106TE300 | 16            | 12.8             | 10          | B         | 16.0               | 10                      | 300                       | 500                     | 350  | 125 | 105                        | 3   |
| CA55-C016#106TE150 | 16            | 12.8             | 10          | C         | 16.0               | 10                      | 150                       | 775                     | 542  | 194 | 105                        | 3   |
| CA55-B016#156TE100 | 16            | 12.8             | 15          | B         | 24.0               | 10                      | 100                       | 866                     | 606  | 217 | 105                        | 3   |
| CA55-B016#156TE150 | 16            | 12.8             | 15          | B         | 24.0               | 6                       | 150                       | 707                     | 495  | 177 | 105                        | 3   |
| CA55-B016#156TE300 | 16            | 12.8             | 15          | B         | 24.0               | 10                      | 300                       | 500                     | 350  | 125 | 105                        | 3   |
| CA55-C016#156TE070 | 16            | 12.8             | 15          | C         | 24.0               | 10                      | 70                        | 1134                    | 794  | 283 | 105                        | 3   |
| CA55-C016#156TE150 | 16            | 12.8             | 15          | C         | 24.0               | 10                      | 150                       | 775                     | 542  | 194 | 105                        | 3   |
| CA55-D016#156TE080 | 16            | 12.8             | 15          | D         | 24.0               | 10                      | 80                        | 1146                    | 802  | 286 | 105                        | 3   |
| CA55-B016#226TE150 | 16            | 12.8             | 22          | B         | 35.2               | 6                       | 150                       | 707                     | 495  | 177 | 105                        | 3   |
| CA55-C016#226TE070 | 16            | 12.8             | 22          | C         | 35.2               | 10                      | 70                        | 1134                    | 794  | 283 | 105                        | 3   |
| CA55-C016#226TE150 | 16            | 12.8             | 22          | C         | 35.2               | 10                      | 150                       | 775                     | 542  | 194 | 105                        | 3   |
| CA55-D016#226TE060 | 16            | 12.8             | 22          | D         | 35.2               | 10                      | 60                        | 1323                    | 926  | 331 | 105                        | 3   |
| CA55-D016#226TE080 | 16            | 12.8             | 22          | D         | 35.2               | 10                      | 80                        | 1146                    | 802  | 286 | 105                        | 3   |
| CA55-E016#226TE080 | 16            | 12.8             | 22          | E         | 35.2               | 10                      | 80                        | 1250                    | 875  | 313 | 105                        | 3   |
| CA55-C016#336TE070 | 16            | 12.8             | 33          | C         | 52.8               | 10                      | 70                        | 1134                    | 794  | 283 | 105                        | 3   |
| CA55-C016#336TE150 | 16            | 12.8             | 33          | C         | 52.8               | 10                      | 150                       | 775                     | 542  | 194 | 105                        | 3   |
| CA55-D016#336TE060 | 16            | 12.8             | 33          | D         | 52.8               | 10                      | 60                        | 1323                    | 926  | 331 | 105                        | 3   |
| CA55-D016#336TE080 | 16            | 12.8             | 33          | D         | 52.8               | 10                      | 80                        | 1146                    | 802  | 286 | 105                        | 3   |
| CA55-E016#336TE080 | 16            | 12.8             | 33          | E         | 52.8               | 10                      | 80                        | 1250                    | 875  | 313 | 105                        | 3   |
| CA55-H016#336TE045 | 16            | 12.8             | 33          | H         | 52.8               | 10                      | 45                        | 1667                    | 1167 | 417 | 105                        | 3   |
| CA55-H016#336TE070 | 16            | 12.8             | 33          | H         | 52.8               | 10                      | 70                        | 1336                    | 935  | 334 | 105                        | 3   |
| CA55-C016#476TE150 | 16            | 12.8             | 47          | C         | 75.2               | 10                      | 150                       | 775                     | 542  | 194 | 105                        | 3   |
| CA55-D016#476TE035 | 16            | 12.8             | 47          | D         | 75.2               | 10                      | 35                        | 1732                    | 1212 | 433 | 105                        | 3   |
| CA55-D016#476TE070 | 16            | 12.8             | 47          | D         | 75.2               | 10                      | 70                        | 1225                    | 857  | 306 | 105                        | 3   |
| CA55-D016#476TE090 | 16            | 12.8             | 47          | D         | 75.2               | 10                      | 90                        | 1080                    | 756  | 270 | 105                        | 3   |
| CA55-E016#476TE050 | 16            | 12.8             | 47          | E         | 75.2               | 10                      | 50                        | 1581                    | 1107 | 395 | 105                        | 3   |
| CA55-E016#476TE080 | 16            | 12.8             | 47          | E         | 75.2               | 10                      | 80                        | 1250                    | 875  | 313 | 105                        | 3   |
| CA55-H016#476TE045 | 16            | 12.8             | 47          | H         | 75.2               | 10                      | 45                        | 1667                    | 1167 | 417 | 105                        | 3   |
| CA55-H016#476TE080 | 16            | 12.8             | 47          | H         | 75.2               | 10                      | 80                        | 1250                    | 875  | 313 | 105                        | 3   |
| CA55-D016#686TE050 | 16            | 12.8             | 68          | D         | 108.8              | 10                      | 50                        | 1449                    | 1014 | 362 | 105                        | 3   |
| CA55-D016#686TE080 | 16            | 12.8             | 68          | D         | 108.8              | 10                      | 80                        | 1146                    | 802  | 286 | 105                        | 3   |
| CA55-E016#686TE050 | 16            | 12.8             | 68          | E         | 108.8              | 10                      | 50                        | 1581                    | 1107 | 395 | 105                        | 3   |
| CA55-E016#686TE080 | 16            | 12.8             | 68          | E         | 108.8              | 10                      | 80                        | 1250                    | 875  | 313 | 105                        | 3   |
| CA55-H016#686TE050 | 16            | 12.8             | 68          | H         | 108.8              | 10                      | 50                        | 1581                    | 1107 | 395 | 105                        | 3   |
| CA55-H016#686TE090 | 16            | 12.8             | 68          | H         | 108.8              | 10                      | 90                        | 1179                    | 825  | 295 | 105                        | 3   |

- 1 Please do not use multimeter through the measuring procedures.
- 2 Capacitance and DF measured at :100Hz,  $U_{DC}=2.2V-1.0V$ ,  $U_{AC}=1.0V-0.5V$ , Frequency=100Hz.Test only applied in series equivalent circuit.
- 3 Voltage derating is applied at +105C°. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- 4 Special size and demand could consult with us.

## RATING & PART NUMBER REFERENCE

| Part Number        | Rated Voltage | Category Voltage | capacitance | Case Code | Max. DCL | Max. DF      | Max. ESR      | 100kHz RMS Current (mA) |       |        | Category Temperature | MSL |
|--------------------|---------------|------------------|-------------|-----------|----------|--------------|---------------|-------------------------|-------|--------|----------------------|-----|
|                    | V             | V                |             |           | @+25C°   | @+25C° 100Hz | @+25C° 100KHz | +45C°                   | +85C° | +105C° | C°                   |     |
|                    |               |                  | μF          |           | μA       | %            | mΩ            |                         |       |        |                      |     |
| CA55-D016#107TE060 | 16            | 12.8             | 100         | D         | 160.0    | 10           | 60            | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-D016#107TE080 | 16            | 12.8             | 100         | D         | 160.0    | 10           | 80            | 1146                    | 802   | 286    | 105                  | 3   |
| CA55-E016#107TE040 | 16            | 12.8             | 100         | E         | 160.0    | 6            | 40            | 1768                    | 1237  | 442    | 105                  | 3   |
| CA55-E016#107TE080 | 16            | 12.8             | 100         | E         | 160.0    | 10           | 80            | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-H016#107TE050 | 16            | 12.8             | 100         | H         | 160.0    | 10           | 50            | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E016#157TE040 | 16            | 12.8             | 150         | E         | 240.0    | 10           | 40            | 1768                    | 1237  | 442    | 105                  | 3   |
| CA55-E016#157TE080 | 16            | 12.8             | 150         | E         | 240.0    | 10           | 80            | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-V016#157TE080 | 16            | 12.8             | 150         | V         | 240.0    | 10           | 80            | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-W016#157TE080 | 16            | 12.8             | 150         | W         | 240.0    | 10           | 80            | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E016#227TE035 | 16            | 12.8             | 220         | E         | 352.0    | 10           | 35            | 1890                    | 1323  | 472    | 105                  | 3   |
| CA55-E016#227TE050 | 16            | 12.8             | 220         | E         | 352.0    | 10           | 50            | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E016#227TE080 | 16            | 12.8             | 220         | E         | 352.0    | 10           | 80            | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-V016#227TE040 | 16            | 12.8             | 220         | V         | 352.0    | 10           | 40            | 1936                    | 1356  | 484    | 105                  | 3   |
| CA55-V016#227TE080 | 16            | 12.8             | 220         | V         | 352.0    | 10           | 80            | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-W016#227TE080 | 16            | 12.8             | 220         | W         | 352.0    | 10           | 80            | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E016#337TE025 | 16            | 12.8             | 330         | E         | 528.0    | 10           | 25            | 2236                    | 1565  | 559    | 105                  | 3   |
| CA55-E016#337TE050 | 16            | 12.8             | 330         | E         | 528.0    | 10           | 50            | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E016#337TE080 | 16            | 12.8             | 330         | E         | 528.0    | 10           | 80            | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-V016#337TE040 | 16            | 12.8             | 330         | V         | 528.0    | 10           | 40            | 1936                    | 1356  | 484    | 105                  | 3   |
| CA55-V016#337TE080 | 16            | 12.8             | 330         | V         | 528.0    | 10           | 80            | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-W016#337TE080 | 16            | 12.8             | 330         | W         | 528.0    | 10           | 80            | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-B020#105TE300 | 20            | 16.0             | 1           | B         | 2.0      | 10           | 300           | 500                     | 350   | 125    | 105                  | 3   |
| CA55-B020#155TE300 | 20            | 16.0             | 1.5         | B         | 3.0      | 10           | 300           | 500                     | 350   | 125    | 105                  | 3   |
| CA55-A020#225TE250 | 20            | 16.0             | 2.2         | A         | 4.4      | 10           | 250           | 510                     | 357   | 127    | 105                  | 3   |
| CA55-B020#225TE150 | 20            | 16.0             | 2.2         | B         | 4.4      | 10           | 150           | 707                     | 495   | 177    | 105                  | 3   |
| CA55-B020#225TE300 | 20            | 16.0             | 2.2         | B         | 4.4      | 10           | 300           | 500                     | 350   | 125    | 105                  | 3   |
| CA55-A020#335TE250 | 20            | 16.0             | 3.3         | A         | 6.6      | 10           | 250           | 510                     | 357   | 127    | 105                  | 3   |
| CA55-B020#335TE150 | 20            | 16.0             | 3.3         | B         | 6.6      | 10           | 150           | 707                     | 495   | 177    | 105                  | 3   |
| CA55-B020#335TE300 | 20            | 16.0             | 3.3         | B         | 6.6      | 10           | 300           | 500                     | 350   | 125    | 105                  | 3   |
| CA55-C020#335TE150 | 20            | 16.0             | 3.3         | C         | 6.6      | 10           | 150           | 775                     | 542   | 194    | 105                  | 3   |
| CA55-B020#475TE150 | 20            | 16.0             | 4.7         | B         | 9.4      | 10           | 150           | 707                     | 495   | 177    | 105                  | 3   |
| CA55-B020#475TE300 | 20            | 16.0             | 4.7         | B         | 9.4      | 10           | 300           | 500                     | 350   | 125    | 105                  | 3   |
| CA55-C020#475TE100 | 20            | 16.0             | 4.7         | C         | 9.4      | 10           | 100           | 949                     | 664   | 237    | 105                  | 3   |
| CA55-C020#475TE150 | 20            | 16.0             | 4.7         | C         | 9.4      | 10           | 150           | 775                     | 542   | 194    | 105                  | 3   |
| CA55-B020#685TE150 | 20            | 16.0             | 6.8         | B         | 13.6     | 10           | 150           | 707                     | 495   | 177    | 105                  | 3   |
| CA55-B020#685TE300 | 20            | 16.0             | 6.8         | B         | 13.6     | 10           | 300           | 500                     | 350   | 125    | 105                  | 3   |
| CA55-C020#685TE100 | 20            | 16.0             | 6.8         | C         | 13.6     | 10           | 100           | 949                     | 664   | 237    | 105                  | 3   |
| CA55-C020#685TE150 | 20            | 16.0             | 6.8         | C         | 13.6     | 10           | 150           | 775                     | 542   | 194    | 105                  | 3   |
| CA55-B020#106TE100 | 20            | 16.0             | 10          | B         | 20.0     | 8            | 100           | 866                     | 606   | 217    | 105                  | 3   |
| CA55-B020#106TE150 | 20            | 16.0             | 10          | B         | 20.0     | 10           | 150           | 707                     | 495   | 177    | 105                  | 3   |
| CA55-B020#106TE300 | 20            | 16.0             | 10          | B         | 20.0     | 10           | 300           | 500                     | 350   | 125    | 105                  | 3   |
| CA55-C020#106TE100 | 20            | 16.0             | 10          | C         | 20.0     | 10           | 100           | 949                     | 664   | 237    | 105                  | 3   |
| CA55-C020#106TE150 | 20            | 16.0             | 10          | C         | 20.0     | 10           | 150           | 775                     | 542   | 194    | 105                  | 3   |
| CA55-B020#156TE090 | 20            | 16.0             | 15          | B         | 30.0     | 10           | 90            | 913                     | 639   | 228    | 105                  | 3   |
| CA55-C020#156TE080 | 20            | 16.0             | 15          | C         | 30.0     | 10           | 80            | 1061                    | 742   | 265    | 105                  | 3   |
| CA55-C020#156TE150 | 20            | 16.0             | 15          | C         | 30.0     | 10           | 150           | 775                     | 542   | 194    | 105                  | 3   |
| CA55-D020#156TE070 | 20            | 16.0             | 15          | D         | 30.0     | 10           | 70            | 1225                    | 857   | 306    | 105                  | 3   |
| CA55-D020#156TE080 | 20            | 16.0             | 15          | D         | 30.0     | 10           | 80            | 1146                    | 802   | 286    | 105                  | 3   |
| CA55-C020#226TE100 | 20            | 16.0             | 22          | C         | 44.0     | 10           | 100           | 949                     | 664   | 237    | 105                  | 3   |
| CA55-C020#226TE150 | 20            | 16.0             | 22          | C         | 44.0     | 10           | 150           | 775                     | 542   | 194    | 105                  | 3   |
| CA55-D020#226TE060 | 20            | 16.0             | 22          | D         | 44.0     | 10           | 60            | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-D020#226TE080 | 20            | 16.0             | 22          | D         | 44.0     | 10           | 80            | 1146                    | 802   | 286    | 105                  | 3   |
| CA55-E020#226TE050 | 20            | 16.0             | 22          | E         | 44.0     | 10           | 50            | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E020#226TE080 | 20            | 16.0             | 22          | E         | 44.0     | 10           | 80            | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-H020#226TE045 | 20            | 16.0             | 22          | H         | 44.0     | 10           | 45            | 1667                    | 1167  | 417    | 105                  | 3   |

- 1 Please do not use multimeter through the measuring procedures.
- 2 Capacitance and DF measured at :100Hz, U<sub>+</sub>=2.2~-1.0V, U<sub>-</sub>=1.0~-0.5V, Frequency=100Hz.Test only applied in series equivalent circuit.
- 3 Voltage derating is applied at +105C°. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- 4 Special size and demand could consult with us.



RATING & PART NUMBER REFERENCE

| Part Number        | Rated Voltage | Category Voltage | capacitance | Case Code | Max. DCL | Max. DF       | Max. ESR       | 100kHz RMS Current (mA) |       |        | Category Temperature | MSL |
|--------------------|---------------|------------------|-------------|-----------|----------|---------------|----------------|-------------------------|-------|--------|----------------------|-----|
|                    | V             | V                |             |           | @+25C°   | @+25C° ,100Hz | @+25C° ,100KHz | +45C°                   | +85C° | +105C° | C°                   |     |
|                    |               |                  | μF          |           | μA       | %             | mΩ             |                         |       |        |                      |     |
| CA55-H020#226TE070 | 20            | 16.0             | 22          | H         | 44.0     | 6             | 70             | 1336                    | 935   | 334    | 105                  | 3   |
| CA55-H020#226TE090 | 20            | 16.0             | 22          | H         | 44.0     | 10            | 90             | 1179                    | 825   | 295    | 105                  | 3   |
| CA55-C020#336TE150 | 20            | 16.0             | 33          | C         | 66.0     | 10            | 150            | 775                     | 542   | 194    | 105                  | 3   |
| CA55-D020#336TE060 | 20            | 16.0             | 33          | D         | 66.0     | 10            | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-D020#336TE080 | 20            | 16.0             | 33          | D         | 66.0     | 10            | 80             | 1146                    | 802   | 286    | 105                  | 3   |
| CA55-E020#336TE050 | 20            | 16.0             | 33          | E         | 66.0     | 10            | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E020#336TE080 | 20            | 16.0             | 33          | E         | 66.0     | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-H020#336TE070 | 20            | 16.0             | 33          | H         | 66.0     | 6             | 70             | 1336                    | 935   | 334    | 105                  | 3   |
| CA55-C020#476TE150 | 20            | 16.0             | 47          | C         | 94.0     | 10            | 150            | 775                     | 542   | 194    | 105                  | 3   |
| CA55-D020#476TE055 | 20            | 16.0             | 47          | D         | 94.0     | 10            | 55             | 1382                    | 967   | 345    | 105                  | 3   |
| CA55-D020#476TE080 | 20            | 16.0             | 47          | D         | 94.0     | 10            | 80             | 1146                    | 802   | 286    | 105                  | 3   |
| CA55-E020#476TE050 | 20            | 16.0             | 47          | E         | 94.0     | 10            | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E020#476TE080 | 20            | 16.0             | 47          | E         | 94.0     | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-H020#476TE055 | 20            | 16.0             | 47          | H         | 94.0     | 10            | 55             | 1508                    | 1055  | 377    | 105                  | 3   |
| CA55-H020#476TE070 | 20            | 16.0             | 47          | H         | 94.0     | 6             | 70             | 1336                    | 935   | 334    | 105                  | 3   |
| CA55-H020#476TE090 | 20            | 16.0             | 47          | H         | 94.0     | 10            | 90             | 1179                    | 825   | 295    | 105                  | 3   |
| CA55-D020#686TE055 | 20            | 16.0             | 68          | D         | 136.0    | 6             | 55             | 1382                    | 967   | 345    | 105                  | 3   |
| CA55-D020#686TE080 | 20            | 16.0             | 68          | D         | 136.0    | 10            | 80             | 1146                    | 802   | 286    | 105                  | 3   |
| CA55-E020#686TE045 | 20            | 16.0             | 68          | E         | 136.0    | 6             | 45             | 1667                    | 1167  | 417    | 105                  | 3   |
| CA55-E020#686TE080 | 20            | 16.0             | 68          | E         | 136.0    | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-D020#107TE055 | 20            | 16.0             | 100         | D         | 200.0    | 10            | 55             | 1382                    | 967   | 345    | 105                  | 3   |
| CA55-E020#107TE045 | 20            | 16.0             | 100         | E         | 200.0    | 6             | 45             | 1667                    | 1167  | 417    | 105                  | 3   |
| CA55-E020#107TE080 | 20            | 16.0             | 100         | E         | 200.0    | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-V020#107TE080 | 20            | 16.0             | 100         | V         | 200.0    | 10            | 80             | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-E020#157TE080 | 20            | 16.0             | 150         | E         | 300.0    | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-V020#157TE080 | 20            | 16.0             | 150         | V         | 300.0    | 10            | 80             | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-W020#157TE080 | 20            | 16.0             | 150         | W         | 300.0    | 10            | 80             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E020#227TE080 | 20            | 16.0             | 220         | E         | 440.0    | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-V020#227TE080 | 20            | 16.0             | 220         | V         | 440.0    | 10            | 80             | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-W020#227TE080 | 20            | 16.0             | 220         | W         | 440.0    | 10            | 80             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-B025#684TE300 | 25            | 20.0             | 0.68        | B         | 1.7      | 10            | 300            | 500                     | 350   | 125    | 105                  | 3   |
| CA55-B025#105TE300 | 25            | 20.0             | 1           | B         | 2.5      | 10            | 300            | 500                     | 350   | 125    | 105                  | 3   |
| CA55-B025#155TE300 | 25            | 20.0             | 1.5         | B         | 3.8      | 10            | 300            | 500                     | 350   | 125    | 105                  | 3   |
| CA55-C025#155TE150 | 25            | 20.0             | 1.5         | C         | 3.8      | 10            | 150            | 775                     | 542   | 194    | 105                  | 3   |
| CA55-B025#225TE250 | 25            | 20.0             | 2.2         | B         | 5.5      | 10            | 250            | 548                     | 383   | 137    | 105                  | 3   |
| CA55-B025#225TE300 | 25            | 20.0             | 2.2         | B         | 5.5      | 10            | 300            | 500                     | 350   | 125    | 105                  | 3   |
| CA55-C025#225TE100 | 25            | 20.0             | 2.2         | C         | 5.5      | 10            | 100            | 949                     | 664   | 237    | 105                  | 3   |
| CA55-C025#225TE150 | 25            | 20.0             | 2.2         | C         | 5.5      | 10            | 150            | 775                     | 542   | 194    | 105                  | 3   |
| CA55-B025#335TE250 | 25            | 20.0             | 3.3         | B         | 8.3      | 10            | 250            | 548                     | 383   | 137    | 105                  | 3   |
| CA55-B025#335TE300 | 25            | 20.0             | 3.3         | B         | 8.3      | 10            | 300            | 500                     | 350   | 125    | 105                  | 3   |
| CA55-C025#335TE100 | 25            | 20.0             | 3.3         | C         | 8.3      | 10            | 100            | 949                     | 664   | 237    | 105                  | 3   |
| CA55-C025#335TE150 | 25            | 20.0             | 3.3         | C         | 8.3      | 10            | 150            | 775                     | 542   | 194    | 105                  | 3   |
| CA55-B025#475TE150 | 25            | 20.0             | 4.7         | B         | 11.8     | 6             | 150            | 707                     | 495   | 177    | 105                  | 3   |
| CA55-B025#475TE250 | 25            | 20.0             | 4.7         | B         | 11.8     | 10            | 250            | 548                     | 383   | 137    | 105                  | 3   |
| CA55-B025#475TE300 | 25            | 20.0             | 4.7         | B         | 11.8     | 10            | 300            | 500                     | 350   | 125    | 105                  | 3   |
| CA55-C025#475TE100 | 25            | 20.0             | 4.7         | C         | 11.8     | 10            | 100            | 949                     | 664   | 237    | 105                  | 3   |
| CA55-C025#475TE150 | 25            | 20.0             | 4.7         | C         | 11.8     | 10            | 150            | 775                     | 542   | 194    | 105                  | 3   |
| CA55-B025#685TE090 | 25            | 20.0             | 6.8         | B         | 17.0     | 6             | 90             | 913                     | 639   | 228    | 105                  | 3   |
| CA55-B025#685TE150 | 25            | 20.0             | 6.8         | B         | 17.0     | 6             | 150            | 707                     | 495   | 177    | 105                  | 3   |
| CA55-B025#685TE300 | 25            | 20.0             | 6.8         | B         | 17.0     | 10            | 300            | 500                     | 350   | 125    | 105                  | 3   |
| CA55-C025#685TE100 | 25            | 20.0             | 6.8         | C         | 17.0     | 10            | 100            | 949                     | 664   | 237    | 105                  | 3   |
| CA55-C025#685TE150 | 25            | 20.0             | 6.8         | C         | 17.0     | 10            | 150            | 775                     | 542   | 194    | 105                  | 3   |
| CA55-B025#106TE100 | 25            | 20.0             | 10          | B         | 25.0     | 8             | 100            | 866                     | 606   | 217    | 105                  | 3   |
| CA55-B025#106TE150 | 25            | 20.0             | 10          | B         | 25.0     | 6             | 150            | 707                     | 495   | 177    | 105                  | 3   |
| CA55-B025#106TE300 | 25            | 20.0             | 10          | B         | 25.0     | 10            | 300            | 500                     | 350   | 125    | 105                  | 3   |

- 1 Please do not use multimeter through the measuring procedures.
- 2 Capacitance and DF measured at :100Hz, U<sub>~</sub>=2.2°-1.0V, U<sub>-</sub>=1.0°-0.5V, Frequency=100Hz.Test only applied in series equivalent circuit.
- 3 Voltage derating is applied at +105C°. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- 4 Special size and demand could consult with us.

## RATING & PART NUMBER REFERENCE

| Part Number        | Rated Voltage | Category Voltage | capacitance | Case Code | Max. DCL | Max. DF       | Max. ESR       | 100kHz RMS Current (mA) |       |        | Category Temperature | MSL |
|--------------------|---------------|------------------|-------------|-----------|----------|---------------|----------------|-------------------------|-------|--------|----------------------|-----|
|                    | V             | V                |             |           | @+25C°   | @+25C° ,100Hz | @+25C° ,100KHz | +45C°                   | +85C° | +105C° | C°                   |     |
|                    |               |                  | μF          |           | μA       | %             | mΩ             |                         |       |        |                      |     |
| CA55-C025#106TE100 | 25            | 20.0             | 10          | C         | 25.0     | 10            | 100            | 949                     | 664   | 237    | 105                  | 3   |
| CA55-C025#106TE150 | 25            | 20.0             | 10          | C         | 25.0     | 10            | 150            | 775                     | 542   | 194    | 105                  | 3   |
| CA55-D025#106TE090 | 25            | 20.0             | 10          | D         | 25.0     | 10            | 90             | 1080                    | 756   | 270    | 105                  | 3   |
| CA55-B025#156TE100 | 25            | 20.0             | 15          | B         | 37.5     | 6             | 100            | 866                     | 606   | 217    | 105                  | 3   |
| CA55-B025#156TE150 | 25            | 20.0             | 15          | B         | 37.5     | 6             | 150            | 707                     | 495   | 177    | 105                  | 3   |
| CA55-C025#156TE150 | 25            | 20.0             | 15          | C         | 37.5     | 10            | 150            | 775                     | 542   | 194    | 105                  | 3   |
| CA55-D025#156TE090 | 25            | 20.0             | 15          | D         | 37.5     | 10            | 90             | 1080                    | 756   | 270    | 105                  | 3   |
| CA55-E025#156TE080 | 25            | 20.0             | 15          | E         | 37.5     | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-H025#156TE090 | 25            | 20.0             | 15          | H         | 37.5     | 10            | 90             | 1179                    | 825   | 295    | 105                  | 3   |
| CA55-B025#226TE150 | 25            | 20.0             | 22          | B         | 55.0     | 6             | 150            | 707                     | 495   | 177    | 105                  | 3   |
| CA55-C025#226TE100 | 25            | 20.0             | 22          | C         | 55.0     | 6             | 100            | 949                     | 664   | 237    | 105                  | 3   |
| CA55-C025#226TE150 | 25            | 20.0             | 22          | C         | 55.0     | 10            | 150            | 775                     | 542   | 194    | 105                  | 3   |
| CA55-D025#226TE060 | 25            | 20.0             | 22          | D         | 55.0     | 6             | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-D025#226TE080 | 25            | 20.0             | 22          | D         | 55.0     | 10            | 80             | 1146                    | 802   | 286    | 105                  | 3   |
| CA55-D025#226TE100 | 25            | 20.0             | 22          | D         | 55.0     | 6             | 100            | 1025                    | 717   | 256    | 105                  | 3   |
| CA55-E025#226TE080 | 25            | 20.0             | 22          | E         | 55.0     | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-H025#226TE060 | 25            | 20.0             | 22          | H         | 55.0     | 10            | 60             | 1443                    | 1010  | 361    | 105                  | 3   |
| CA55-H025#226TE090 | 25            | 20.0             | 22          | H         | 55.0     | 10            | 90             | 1179                    | 825   | 295    | 105                  | 3   |
| CA55-D025#336TE060 | 25            | 20.0             | 33          | D         | 82.5     | 10            | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-D025#336TE080 | 25            | 20.0             | 33          | D         | 82.5     | 10            | 80             | 1146                    | 802   | 286    | 105                  | 3   |
| CA55-D025#336TE100 | 25            | 20.0             | 33          | D         | 82.5     | 6             | 100            | 1025                    | 717   | 256    | 105                  | 3   |
| CA55-E025#336TE080 | 25            | 20.0             | 33          | E         | 82.5     | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-H025#336TE060 | 25            | 20.0             | 33          | H         | 82.5     | 10            | 60             | 1443                    | 1010  | 361    | 105                  | 3   |
| CA55-H025#336TE100 | 25            | 20.0             | 33          | H         | 82.5     | 6             | 100            | 1118                    | 783   | 280    | 105                  | 3   |
| CA55-D025#476TE060 | 25            | 20.0             | 47          | D         | 117.5    | 6             | 60             | 1323                    | 926   | 331    | 105                  | 3   |
| CA55-D025#476TE080 | 25            | 20.0             | 47          | D         | 117.5    | 10            | 80             | 1146                    | 802   | 286    | 105                  | 3   |
| CA55-D025#476TE100 | 25            | 20.0             | 47          | D         | 117.5    | 6             | 100            | 1025                    | 717   | 256    | 105                  | 3   |
| CA55-E025#476TE050 | 25            | 20.0             | 47          | E         | 117.5    | 6             | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E025#476TE080 | 25            | 20.0             | 47          | E         | 117.5    | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-D025#686TE080 | 25            | 20.0             | 68          | D         | 170.0    | 10            | 80             | 1146                    | 802   | 286    | 105                  | 3   |
| CA55-E025#686TE050 | 25            | 20.0             | 68          | E         | 170.0    | 6             | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E025#686TE080 | 25            | 20.0             | 68          | E         | 170.0    | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-V025#686TE080 | 25            | 20.0             | 68          | V         | 170.0    | 10            | 80             | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-E025#107TE060 | 25            | 20.0             | 100         | E         | 250.0    | 10            | 60             | 1443                    | 1010  | 361    | 105                  | 3   |
| CA55-E025#107TE080 | 25            | 20.0             | 100         | E         | 250.0    | 10            | 80             | 1250                    | 875   | 313    | 105                  | 3   |
| CA55-V025#107TE080 | 25            | 20.0             | 100         | V         | 250.0    | 10            | 80             | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-W025#107TE080 | 25            | 20.0             | 100         | W         | 250.0    | 10            | 80             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-V025#157TE080 | 25            | 20.0             | 150         | V         | 375.0    | 10            | 80             | 1369                    | 959   | 342    | 105                  | 3   |
| CA55-W025#157TE080 | 25            | 20.0             | 150         | W         | 375.0    | 10            | 80             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-B035#684TE350 | 35            | 28.0             | 0.68        | B         | 2.4      | 10            | 350            | 463                     | 324   | 116    | 105                  | 3   |
| CA55-B035#105TE350 | 35            | 28.0             | 1           | B         | 3.5      | 10            | 350            | 463                     | 324   | 116    | 105                  | 3   |
| CA55-B035#155TE200 | 35            | 28.0             | 1.5         | B         | 5.3      | 6             | 200            | 612                     | 429   | 153    | 105                  | 3   |
| CA55-B035#155TE350 | 35            | 28.0             | 1.5         | B         | 5.3      | 10            | 350            | 463                     | 324   | 116    | 105                  | 3   |
| CA55-C035#155TE200 | 35            | 28.0             | 1.5         | C         | 5.3      | 10            | 200            | 671                     | 470   | 168    | 105                  | 3   |
| CA55-B035#225TE200 | 35            | 28.0             | 2.2         | B         | 7.7      | 6             | 200            | 612                     | 429   | 153    | 105                  | 3   |
| CA55-B035#225TE350 | 35            | 28.0             | 2.2         | B         | 7.7      | 10            | 350            | 463                     | 324   | 116    | 105                  | 3   |
| CA55-C035#225TE200 | 35            | 28.0             | 2.2         | C         | 7.7      | 10            | 200            | 671                     | 470   | 168    | 105                  | 3   |
| CA55-B035#335TE200 | 35            | 28.0             | 3.3         | B         | 11.6     | 6             | 200            | 612                     | 429   | 153    | 105                  | 3   |
| CA55-B035#335TE350 | 35            | 28.0             | 3.3         | B         | 11.6     | 10            | 350            | 463                     | 324   | 116    | 105                  | 3   |
| CA55-C035#335TE200 | 35            | 28.0             | 3.3         | C         | 11.6     | 10            | 200            | 671                     | 470   | 168    | 105                  | 3   |
| CA55-B035#475TE200 | 35            | 28.0             | 4.7         | B         | 16.5     | 6             | 200            | 612                     | 429   | 153    | 105                  | 3   |
| CA55-B035#475TE350 | 35            | 28.0             | 4.7         | B         | 16.5     | 10            | 350            | 463                     | 324   | 116    | 105                  | 3   |
| CA55-C035#475TE200 | 35            | 28.0             | 4.7         | C         | 16.5     | 10            | 200            | 671                     | 470   | 168    | 105                  | 3   |
| CA55-C035#685TE200 | 35            | 28.0             | 6.8         | C         | 23.8     | 10            | 200            | 671                     | 470   | 168    | 105                  | 3   |
| CA55-D035#685TE090 | 35            | 28.0             | 6.8         | D         | 23.8     | 10            | 90             | 1080                    | 756   | 270    | 105                  | 3   |

- 1 Please do not use multimeter through the measuring procedures.
- 2 Capacitance and DF measured at :100Hz, U<sub>r</sub>=2.2~-1.0V, U<sub>w</sub>=1.0~-0.5V, Frequency=100Hz.Test only applied in series equivalent circuit.
- 3 Voltage derating is applied at +105C°. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- 4 Special size and demand could consult with us.

## RATING & PART NUMBER REFERENCE

| Part Number        | Rated Voltage | Category Voltage | capacitance | Case Code | Max. DCL | Max. DF      | Max. ESR      | 100kHz RMS Current (mA) |       |        | Category Temperature | MSL |
|--------------------|---------------|------------------|-------------|-----------|----------|--------------|---------------|-------------------------|-------|--------|----------------------|-----|
|                    | V             | V                |             |           | @+25C°   | @+25C°,100Hz | @+25C°,100KHz | +45C°                   | +85C° | +105C° | C°                   |     |
|                    |               |                  | μF          |           | μA       | %            | mΩ            |                         |       |        |                      |     |
| CA55-B035#106TE200 | 35            | 28.0             | 10          | B         | 35.0     | 6            | 200           | 612                     | 429   | 153    | 105                  | 3   |
| CA55-C035#106TE200 | 35            | 28.0             | 10          | C         | 35.0     | 10           | 200           | 671                     | 470   | 168    | 105                  | 3   |
| CA55-D035#106TE090 | 35            | 28.0             | 10          | D         | 35.0     | 10           | 90            | 1080                    | 756   | 270    | 105                  | 3   |
| CA55-E035#106TE090 | 35            | 28.0             | 10          | E         | 35.0     | 10           | 90            | 1179                    | 825   | 295    | 105                  | 3   |
| CA55-H035#106TE070 | 35            | 28.0             | 10          | H         | 35.0     | 6            | 70            | 1336                    | 935   | 334    | 105                  | 3   |
| CA55-H035#106TE120 | 35            | 28.0             | 10          | H         | 35.0     | 10           | 120           | 1021                    | 714   | 255    | 105                  | 3   |
| CA55-C035#156TE200 | 35            | 28.0             | 15          | C         | 52.5     | 6            | 200           | 671                     | 470   | 168    | 105                  | 3   |
| CA55-D035#156TE070 | 35            | 28.0             | 15          | D         | 52.5     | 6            | 70            | 1225                    | 857   | 306    | 105                  | 3   |
| CA55-D035#156TE100 | 35            | 28.0             | 15          | D         | 52.5     | 6            | 100           | 1025                    | 717   | 256    | 105                  | 3   |
| CA55-E035#156TE090 | 35            | 28.0             | 15          | E         | 52.5     | 10           | 90            | 1179                    | 825   | 295    | 105                  | 3   |
| CA55-H035#156TE100 | 35            | 28.0             | 15          | H         | 52.5     | 10           | 100           | 1118                    | 783   | 280    | 105                  | 3   |
| CA55-H035#156TE125 | 35            | 28.0             | 15          | H         | 52.5     | 10           | 125           | 1000                    | 700   | 250    | 105                  | 3   |
| CA55-D035#226TE070 | 35            | 28.0             | 22          | D         | 77.0     | 6            | 70            | 1225                    | 857   | 306    | 105                  | 3   |
| CA55-D035#226TE100 | 35            | 28.0             | 22          | D         | 77.0     | 6            | 100           | 1025                    | 717   | 256    | 105                  | 3   |
| CA55-E035#226TE090 | 35            | 28.0             | 22          | E         | 77.0     | 10           | 90            | 1179                    | 825   | 295    | 105                  | 3   |
| CA55-D035#336TE065 | 35            | 28.0             | 33          | D         | 115.5    | 10           | 65            | 1271                    | 890   | 318    | 105                  | 3   |
| CA55-D035#336TE100 | 35            | 28.0             | 33          | D         | 115.5    | 6            | 100           | 1025                    | 717   | 256    | 105                  | 3   |
| CA55-E035#336TE055 | 35            | 28.0             | 33          | E         | 115.5    | 6            | 55            | 1508                    | 1055  | 377    | 105                  | 3   |
| CA55-E035#336TE070 | 35            | 28.0             | 33          | E         | 115.5    | 6            | 70            | 1336                    | 935   | 334    | 105                  | 3   |
| CA55-E035#336TE090 | 35            | 28.0             | 33          | E         | 115.5    | 10           | 90            | 1179                    | 825   | 295    | 105                  | 3   |
| CA55-V035#336TE090 | 35            | 28.0             | 33          | V         | 115.5    | 10           | 90            | 1291                    | 904   | 323    | 105                  | 3   |
| CA55-E035#476TE030 | 35            | 28.0             | 47          | E         | 164.5    | 10           | 30            | 2041                    | 1429  | 510    | 105                  | 3   |
| CA55-E035#476TE055 | 35            | 28.0             | 47          | E         | 164.5    | 6            | 55            | 1508                    | 1055  | 377    | 105                  | 3   |
| CA55-E035#476TE090 | 35            | 28.0             | 47          | E         | 164.5    | 10           | 90            | 1179                    | 825   | 295    | 105                  | 3   |
| CA55-V035#476TE090 | 35            | 28.0             | 47          | V         | 164.5    | 10           | 90            | 1291                    | 904   | 323    | 105                  | 3   |
| CA55-W035#476TE090 | 35            | 28.0             | 47          | W         | 164.5    | 10           | 90            | 1491                    | 1043  | 373    | 105                  | 3   |
| CA55-W035#686TE090 | 35            | 28.0             | 68          | W         | 238.0    | 10           | 90            | 1491                    | 1043  | 373    | 105                  | 3   |
| CA55-B050#684TE350 | 50            | 40.0             | 0.68        | B         | 3.4      | 10           | 350           | 463                     | 324   | 116    | 105                  | 3   |
| CA55-B050#684TE400 | 50            | 40.0             | 0.68        | B         | 3.4      | 6            | 400           | 433                     | 303   | 108    | 105                  | 3   |
| CA55-B050#105TE300 | 50            | 40.0             | 1           | B         | 5.0      | 6            | 300           | 500                     | 350   | 125    | 105                  | 3   |
| CA55-B050#105TE350 | 50            | 40.0             | 1           | B         | 5.0      | 10           | 350           | 463                     | 324   | 116    | 105                  | 3   |
| CA55-B050#155TE300 | 50            | 40.0             | 1.5         | B         | 7.5      | 6            | 300           | 500                     | 350   | 125    | 105                  | 3   |
| CA55-B050#155TE350 | 50            | 40.0             | 1.5         | B         | 7.5      | 10           | 350           | 463                     | 324   | 116    | 105                  | 3   |
| CA55-C050#155TE200 | 50            | 40.0             | 1.5         | C         | 7.5      | 10           | 200           | 671                     | 470   | 168    | 105                  | 3   |
| CA55-C050#155TE300 | 50            | 40.0             | 1.5         | C         | 7.5      | 6            | 300           | 548                     | 383   | 137    | 105                  | 3   |
| CA55-B050#225TE350 | 50            | 40.0             | 2.2         | B         | 11.0     | 10           | 350           | 463                     | 324   | 116    | 105                  | 3   |
| CA55-C050#225TE200 | 50            | 40.0             | 2.2         | C         | 11.0     | 10           | 200           | 671                     | 470   | 168    | 105                  | 3   |
| CA55-C050#225TE300 | 50            | 40.0             | 2.2         | C         | 11.0     | 6            | 300           | 548                     | 383   | 137    | 105                  | 3   |
| CA55-C050#335TE200 | 50            | 40.0             | 3.3         | C         | 16.5     | 10           | 200           | 671                     | 470   | 168    | 105                  | 3   |
| CA55-D050#335TE100 | 50            | 40.0             | 3.3         | D         | 16.5     | 10           | 100           | 1025                    | 717   | 256    | 105                  | 3   |
| CA55-C050#475TE200 | 50            | 40.0             | 4.7         | C         | 23.5     | 10           | 200           | 671                     | 470   | 168    | 105                  | 3   |
| CA55-D050#475TE100 | 50            | 40.0             | 4.7         | D         | 23.5     | 10           | 100           | 1025                    | 717   | 256    | 105                  | 3   |
| CA55-C050#685TE200 | 50            | 40.0             | 6.8         | C         | 34.0     | 10           | 200           | 671                     | 470   | 168    | 105                  | 3   |
| CA55-D050#685TE070 | 50            | 40.0             | 6.8         | D         | 34.0     | 10           | 70            | 1225                    | 857   | 306    | 105                  | 3   |
| CA55-D050#685TE100 | 50            | 40.0             | 6.8         | D         | 34.0     | 10           | 100           | 1025                    | 717   | 256    | 105                  | 3   |
| CA55-D050#685TE120 | 50            | 40.0             | 6.8         | D         | 34.0     | 10           | 120           | 935                     | 655   | 234    | 105                  | 3   |
| CA55-H050#685TE070 | 50            | 40.0             | 6.8         | H         | 34.0     | 10           | 70            | 1336                    | 935   | 334    | 105                  | 3   |
| CA55-H050#685TE090 | 50            | 40.0             | 6.8         | H         | 34.0     | 10           | 90            | 1179                    | 825   | 295    | 105                  | 3   |
| CA55-D050#106TE090 | 50            | 40.0             | 10          | D         | 50.0     | 10           | 90            | 1080                    | 756   | 270    | 105                  | 3   |
| CA55-D050#106TE120 | 50            | 40.0             | 10          | D         | 50.0     | 10           | 120           | 935                     | 655   | 234    | 105                  | 3   |
| CA55-E050#106TE070 | 50            | 40.0             | 10          | E         | 50.0     | 6            | 70            | 1336                    | 935   | 334    | 105                  | 3   |
| CA55-E050#106TE100 | 50            | 40.0             | 10          | E         | 50.0     | 10           | 100           | 1118                    | 783   | 280    | 105                  | 3   |
| CA55-E050#156TE070 | 50            | 40.0             | 15          | E         | 75.0     | 6            | 70            | 1336                    | 935   | 334    | 105                  | 3   |
| CA55-E050#156TE100 | 50            | 40.0             | 15          | E         | 75.0     | 10           | 100           | 1118                    | 783   | 280    | 105                  | 3   |
| CA55-V050#156TE100 | 50            | 40.0             | 15          | V         | 75.0     | 10           | 100           | 1225                    | 857   | 306    | 105                  | 3   |

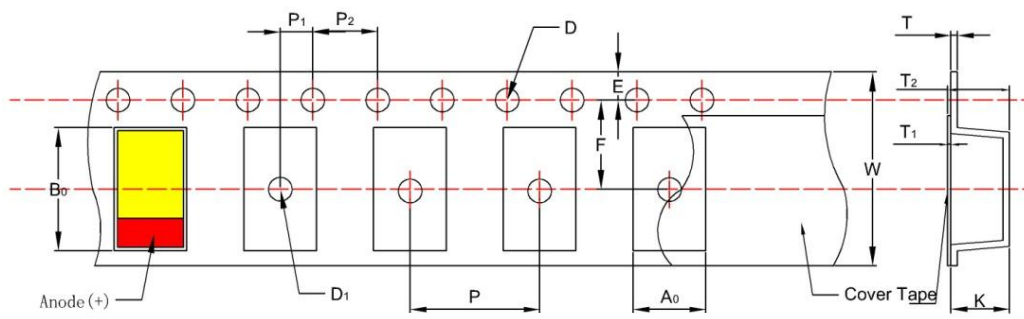
- 1 Please do not use multimeter through the measuring procedures.
- 2 Capacitance and DF measured at :100Hz, U<sub>r</sub>=2.2°-1.0V, U<sub>-</sub>=1.0°-0.5V, Frequency=100Hz.Test only applied in series equivalent circuit.
- 3 Voltage derating is applied at +105C°. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- 4 Special size and demand could consult with us.

RATING & PART NUMBER REFERENCE

| Part Number        | Rated Voltage | Category Voltage | capacitance | Case Code | Max. DCL | Max. DF       | Max. ESR       | 100kHz RMS Current (mA) |       |        | Category Temperature | MSL |
|--------------------|---------------|------------------|-------------|-----------|----------|---------------|----------------|-------------------------|-------|--------|----------------------|-----|
|                    | V             | V                |             |           | @+25C°   | @+25C° ,100Hz | @+25C° ,100KHz | +45C°                   | +85C° | +105C° | C°                   |     |
|                    |               |                  | μF          |           | μA       | %             | mΩ             |                         |       |        |                      |     |
| CA55-E050#226TE075 | 50            | 40.0             | 22          | E         | 110.0    | 10            | 75             | 1291                    | 904   | 323    | 105                  | 3   |
| CA55-E050#226TE100 | 50            | 40.0             | 22          | E         | 110.0    | 10            | 100            | 1118                    | 783   | 280    | 105                  | 3   |
| CA55-V050#226TE100 | 50            | 40.0             | 22          | V         | 110.0    | 10            | 100            | 1225                    | 857   | 306    | 105                  | 3   |
| CA55-W050#226TE100 | 50            | 40.0             | 22          | W         | 110.0    | 10            | 100            | 1414                    | 990   | 354    | 105                  | 3   |
| CA55-E050#336TE075 | 50            | 40.0             | 33          | E         | 165.0    | 10            | 75             | 1291                    | 904   | 323    | 105                  | 3   |
| CA55-V050#336TE100 | 50            | 40.0             | 33          | V         | 165.0    | 10            | 100            | 1225                    | 857   | 306    | 105                  | 3   |
| CA55-W050#336TE100 | 50            | 40.0             | 33          | W         | 165.0    | 10            | 100            | 1414                    | 990   | 354    | 105                  | 3   |
| CA55-W050#476TE100 | 50            | 40.0             | 47          | W         | 235.0    | 10            | 100            | 1414                    | 990   | 354    | 105                  | 3   |
| CA55-B063#105TE300 | 63            | 50.4             | 1           | B         | 6.3      | 8             | 300            | 500                     | 350   | 125    | 105                  | 3   |
| CA55-C063#105TE200 | 63            | 50.4             | 1           | C         | 6.3      | 10            | 200            | 671                     | 470   | 168    | 105                  | 3   |
| CA55-C063#105TE300 | 63            | 50.4             | 1           | C         | 6.3      | 6             | 300            | 548                     | 383   | 137    | 105                  | 3   |
| CA55-D063#105TE120 | 63            | 50.4             | 1           | D         | 6.3      | 10            | 120            | 935                     | 655   | 234    | 105                  | 3   |
| CA55-C063#155TE200 | 63            | 50.4             | 1.5         | C         | 9.5      | 10            | 200            | 671                     | 470   | 168    | 105                  | 3   |
| CA55-C063#155TE300 | 63            | 50.4             | 1.5         | C         | 9.5      | 6             | 300            | 548                     | 383   | 137    | 105                  | 3   |
| CA55-D063#155TE120 | 63            | 50.4             | 1.5         | D         | 9.5      | 10            | 120            | 935                     | 655   | 234    | 105                  | 3   |
| CA55-C063#225TE200 | 63            | 50.4             | 2.2         | C         | 13.9     | 10            | 200            | 671                     | 470   | 168    | 105                  | 3   |
| CA55-D063#225TE120 | 63            | 50.4             | 2.2         | D         | 13.9     | 10            | 120            | 935                     | 655   | 234    | 105                  | 3   |
| CA55-C063#335TE200 | 63            | 50.4             | 3.3         | C         | 20.8     | 10            | 200            | 671                     | 470   | 168    | 105                  | 3   |
| CA55-D063#335TE120 | 63            | 50.4             | 3.3         | D         | 20.8     | 10            | 120            | 935                     | 655   | 234    | 105                  | 3   |
| CA55-C063#475TE200 | 63            | 50.4             | 4.7         | C         | 29.6     | 6             | 200            | 671                     | 470   | 168    | 105                  | 3   |
| CA55-D063#475TE075 | 63            | 50.4             | 4.7         | D         | 29.6     | 10            | 75             | 1183                    | 828   | 296    | 105                  | 3   |
| CA55-D063#475TE120 | 63            | 50.4             | 4.7         | D         | 29.6     | 10            | 120            | 935                     | 655   | 234    | 105                  | 3   |
| CA55-D063#475TE300 | 63            | 50.4             | 4.7         | D         | 29.6     | 10            | 300            | 592                     | 414   | 148    | 105                  | 3   |
| CA55-E063#475TE120 | 63            | 50.4             | 4.7         | E         | 29.6     | 10            | 120            | 1021                    | 714   | 255    | 105                  | 3   |
| CA55-D063#685TE120 | 63            | 50.4             | 6.8         | D         | 42.8     | 10            | 120            | 935                     | 655   | 234    | 105                  | 3   |
| CA55-E063#685TE100 | 63            | 50.4             | 6.8         | E         | 42.8     | 6             | 100            | 1118                    | 783   | 280    | 105                  | 3   |
| CA55-E063#685TE150 | 63            | 50.4             | 6.8         | E         | 42.8     | 6             | 150            | 913                     | 639   | 228    | 105                  | 3   |
| CA55-D063#106TE120 | 63            | 50.4             | 10          | D         | 63.0     | 10            | 120            | 935                     | 655   | 234    | 105                  | 3   |
| CA55-E063#106TE050 | 63            | 50.4             | 10          | E         | 63.0     | 10            | 50             | 1581                    | 1107  | 395    | 105                  | 3   |
| CA55-E063#106TE100 | 63            | 50.4             | 10          | E         | 63.0     | 6             | 100            | 1118                    | 783   | 280    | 105                  | 3   |
| CA55-E063#106TE150 | 63            | 50.4             | 10          | E         | 63.0     | 6             | 150            | 913                     | 639   | 228    | 105                  | 3   |
| CA55-E063#156TE035 | 63            | 50.4             | 15          | E         | 94.5     | 10            | 35             | 1890                    | 1323  | 472    | 105                  | 3   |
| CA55-E063#156TE120 | 63            | 50.4             | 15          | E         | 94.5     | 10            | 120            | 1021                    | 714   | 255    | 105                  | 3   |
| CA55-E063#156TE150 | 63            | 50.4             | 15          | E         | 94.5     | 10            | 150            | 913                     | 639   | 228    | 105                  | 3   |
| CA55-V063#156TE120 | 63            | 50.4             | 15          | V         | 94.5     | 10            | 120            | 1118                    | 783   | 280    | 105                  | 3   |
| CA55-W063#226TE120 | 63            | 50.4             | 22          | W         | 138.6    | 10            | 120            | 1291                    | 904   | 323    | 105                  | 3   |

- 1 Please do not use multimeter through the measuring procedures.
- 2 Capacitance and DF measured at :100Hz, U<sub>DC</sub>=2.2~-1.0V, U<sub>AC</sub>~1.0~-0.5V, Frequency=100Hz.Test only applied in series equivalent circuit.
- 3 Voltage derating is applied at +105C°. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- 4 Special size and demand could consult with us.

### A,B,C,D,E,V,W Case Product Packaging



Embossed (Plastic) Carrier Tape Dimensions

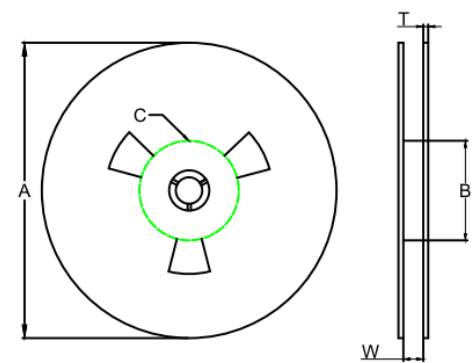
#### Diagram of Taping Dimensions

| Case | A <sub>0</sub> ±0.10 | B <sub>0</sub> ±0.10 | K±0.10 | W±0.30 | E±0.10 | F±0.05 | P±0.10 | P <sub>1</sub> ±0.05 | P <sub>2</sub> ±0.10 | D+0.20 | D <sub>1</sub> +0.25 |
|------|----------------------|----------------------|--------|--------|--------|--------|--------|----------------------|----------------------|--------|----------------------|
| A    | 1.83                 | 3.57                 | 1.65   | 8      | 1.75   | 3.5    | 4      | 2                    | 4                    | 1.5    | 1                    |
| B    | 3.15                 | 3.77                 | 2.22   | 8      | 1.75   | 3.5    | 4      | 2                    | 4                    | 1.5    | 1                    |
| C    | 3.45                 | 6.4                  | 2.92   | 12     | 1.75   | 5.5    | 8      | 2                    | 4                    | 1.5    | 1.5                  |
| D    | 4.48                 | 7.62                 | 3.22   | 12     | 1.75   | 5.5    | 8      | 2                    | 4                    | 1.5    | 1.5                  |
| E    | 4.5                  | 7.5                  | 4.5    | 12     | 1.75   | 5.5    | 8      | 2                    | 4                    | 1.5    | 1.5                  |
| V    | 6.4                  | 7.6                  | 4.4    | 12     | 1.75   | 5.5    | 8      | 2                    | 4                    | 1.5    | 1.5                  |
| W    | 7.2                  | 8.1                  | 4.75   | 16     | 1.75   | 7.5    | 12     | 2                    | 4                    | 1.5    | 1.5                  |

±0.2mm over 10 sprocket hole spaces

#### Reel Dimensions

| Reel Size  | Tape Wide | A        | B      | C         | W           | T         |
|------------|-----------|----------|--------|-----------|-------------|-----------|
| 180mm (7") | 8mm       | 178±2.00 | 50 min | 13.0±0.50 | 8.4+1.5/-0  | 1.50±0.50 |
| 180mm (7") | 12mm      | 178±2.00 | 50 min | 13.0±0.50 | 12.4+1.5/-0 | 1.50±0.50 |
| 180mm (7") | 16mm      | 178±2.00 | 50 min | 13.0±0.50 | 16.4+1.5/-1 | 1.50±0.50 |



Reel Dimensions

#### Packaging Quantity

| Case size              | A    | B    | C   | D   | E   | V   | W   |
|------------------------|------|------|-----|-----|-----|-----|-----|
| Quantity (pcs / plate) | 2000 | 2000 | 500 | 500 | 400 | 400 | 400 |

### Land Dimension /Courtyard

| Case code | Metric Size Code | Density Level A: Maximum (Most) Land Protrusion (mm) |      |      |       |     | Density Level B : Median (Nominal) Land Protrusion (mm) |      |      |      |     | Density Level C: Minimum (Least) Land Protrusion (mm) |      |      |      |      |
|-----------|------------------|--|------|------|-------|-----|---|------|------|------|-----|---|------|------|------|------|
|           |                  | W  | L    | S    | V1    | V2  | W   | L    | S    | V1   | V2  | W   | L    | S    | V1   | V2   |
| A         | 3216-18          | 1.35   | 2.20 | 0.62 | 6.02  | 2.8 | 1.23  | 1.8  | 0.82 | 4.92 | 2.3 | 1.13  | 1.42 | 0.98 | 4.06 | 2.04 |
| B         | 3528-21          | 2.35   | 2.21 | 0.92 | 6.32  | 4.0 | 2.23  | 1.8  | 1.12 | 5.22 | 3.5 | 2.13  | 1.42 | 1.28 | 4.36 | 3.24 |
| C         | 6032-25          | 2.35   | 2.77 | 2.37 | 8.92  | 4.5 | 2.23  | 2.37 | 2.57 | 7.82 | 4   | 2.13  | 1.99 | 2.73 | 6.96 | 3.74 |
| D         | 7343-31          | 2.55   | 2.77 | 3.67 | 10.22 | 5.6 | 2.43  | 2.37 | 3.87 | 9.12 | 5.1 | 2.33  | 1.99 | 4.03 | 8.26 | 4.84 |
| E         | 7343-43          | 2.55   | 2.77 | 3.67 | 10.22 | 5.6 | 2.43  | 2.37 | 3.87 | 9.12 | 5.1 | 2.33  | 1.99 | 4.03 | 8.26 | 4.84 |

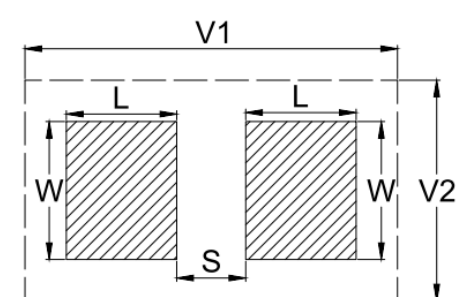
**Density Level A:** For low-density product applications. Recommended for wave solder applications and provides a wider process window for reflow solder processes.

**Density Level B:** For products with a moderate level of component density. Provides a robust solder attachment condition for reflow solder processes.

**Density Level C:** For high component density product applications. Before adapting the minimum land pattern variations the user should perform qualification testing based on the conditions outlined in IPC standard 7351 (IPC-7351).

1 Height of these chips may create problems in wave soldering.

2 Land pattern geometry is too small for silkscreen outline.



Surface Mount Footprints



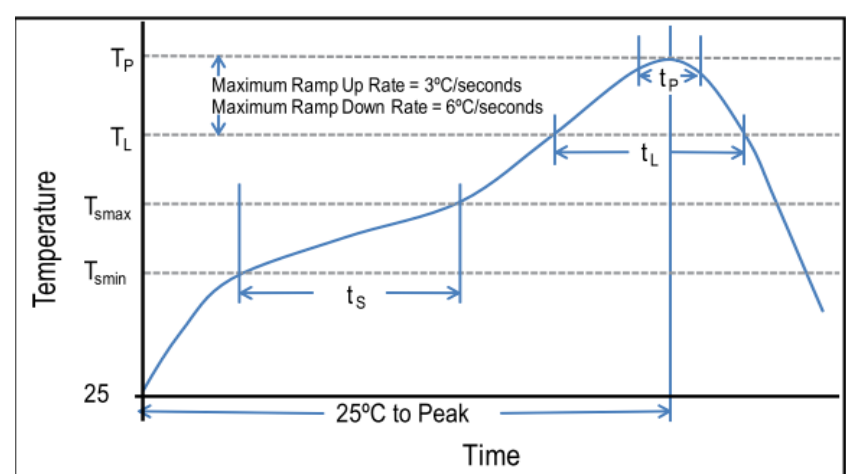
## Soldering Process

XIANGYEE tantalum capacitors are compatible with wave (single or dual), convection, IR, or vapor phase reflow techniques. Preheating of these components is recommended to avoid extreme thermal stress. XIANGYEE's recommended profile conditions for convection and IR reflow reflect the profile conditions of the IPC/J-STD-020D standard for moisture sensitivity testing. The devices can safely withstand a maximum of three reflow passes at these conditions.

Hand soldering should be performed with care due to the difficulty in process control. If performed, care should be taken to avoid contact of the soldering iron to the molded case. The iron should be used to heat the solder pad, applying solder between the pad and the termination, until reflow occurs. Once reflow occurs, the iron should be removed immediately. "Wiping" the edges of a chip and heating the top surface is not recommended.

During typical reflow operations, a slight darkening of the gold-colored epoxy may be observed. This slight darkening is normal and not harmful to the product. Marking permanency is not affected by this change.

| Profile Feature                                       | SnPb Assembly       | Pb-Free Assembly    |
|---|---------------------|---------------------|
| Preheat/Soak  |                     |                     |
| Temperature Minimum ( $T_{smin}$ )                    | 100°C               | 150°C               |
| Temperature Maximum ( $T_{smax}$ )                    | 150°C               | 200°C               |
| Time ( $t_s$ ) from $T_{smin}$ to $T_{smax}$          | 60 – 120 seconds    | 60 – 120 seconds    |
| Ramp-up Rate ( $T_L$ to $T_P$ )                       | 3°C/seconds maximum | 3°C/seconds maximum |
| Liquidous Temperature ( $T_L$ )                       | 183°C               | 217°C               |
| Time Above Liquidous ( $t_L$ )                        | 60 – 150 seconds    | 60 – 150 seconds    |
| Peak Temperature ( $T_P$ )                            | 220°C* , 235°C**    | 250°C* , 260°C**    |
| Time within 5°C of Maximum Peak Temperature ( $t_P$ ) | 20 seconds maximum  | 30 seconds maximum  |
| Ramp-down Rate ( $T_P$ to $T_L$ )                     | 6°C/seconds maximum | 6°C/seconds maximum |
| Time 25°C to Peak Temperature                         | 6 minutes maximum   | 8 minutes maximum   |



Recommended Reflow Profile

Note: All temperatures refer to the center of the package, measured on the package body surface that is facing up during assembly reflow.

\*Case Size D, E      \*\*Case Size A, B, C

## Storage

Tantalum dielectric chip capacitors are unaffected by the following storage condition for 2 years:

Temperature: -10°C – +50°C Humidity: 75% RH maximum

Atmospheric pressure: 860 mbar ~ 1060mbar

Tantalum capacitors exhibit a very low random failure rate after long periods of storage and apart from this there are no known modes of failure under normal storage conditions. All capacitors will withstand any environmental conditions within their ratings for the periods given in the detail specifications. Storage for longer periods under high humidity conditions may affect the leakage current of resin protected capacitors. Solderability of solder coated surfaces may be affected by storage of excess of 2 years.

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[489D106X0025D6VE3](#) [489D106X0035F1VE3](#) [489D224X0035A1VE3](#) [489D224X0035A6VE3](#) [489D475X0035D1VE3](#)  
[489D475X0035D6VE3](#) [489D105X0025A1VE3](#) [489D106X0010B1VE3](#) [489D225X0025B1VE3](#) [790D686X9016C2BE3](#)  
[790D226X9040C2BE3](#) [790D105X9040A2BE3](#) [790D106X9025B2BE3](#) [T110A105K050AS](#) [T110D227K010AS](#)