

## **DATA SHEET**

**ARRAY CHIP RESISTORS** 

YC/TC

5%, 1%

sizes

YC:102/104/122/124/162/164/248/324/158/358 TC: 122/124/164

**RoHS** compliant



YAGEO Phícomp



### SCOPE

This specification describes YC (convex) and TC (concave) series chip resistor arrays with lead-free terminations made by thick film process.

### **APPLICATIONS**

- Terminal for SDRAM and DDRAM
- Computer applications: laptop computer, desktop computer
- Consume electronic equipments: PDAs, PNDs
- Mobile phone, telecom...

### **FEATURES**

- More efficient in pick & place application
- · Low assembly costs
- · RoHS compliant
  - Products with lead free terminations meet RoHS requirements
  - Pb-glass contained in electrodes
  - Resistor element and glass are exempted by RoHS
- Reducing environmentally hazardous wastes
- High component and equipment reliability
- Saving of PCB space
- None forbidden-materials used in products/production

### ORDERING INFORMATION - GLOBAL PART NUMBER & 12NC

Both part numbers are identified by the series, size, tolerance, packing type, temperature coefficient, taping reel and resistance value.

### YAGEO BRAND ordering code

### **GLOBAL PART NUMBER (PREFERRED)**

$${\mathsf{TC}}^{\mathsf{XXX}}_{(1)}$$
 -  ${\mathsf{X}}^{\mathsf{X}}_{(2)}$   ${\mathsf{X}}^{\mathsf{X}}_{(3)}$   ${\mathsf{X}}^{\mathsf{X}}_{(4)}$   ${\mathsf{XXX}}^{\mathsf{XXXX}}_{(5)}$   ${\mathsf{XXXX}}^{\mathsf{L}}_{(7)}$ 

### (I) SIZE

YC:102/104/122/124/162/164/248/324/158/358

TC: 122/124/164

### (2) TOLERANCE

### (3) PACKAGING TYPE

R = Paper taping reel K = Embossed plastic tape reel

### (4) TEMPERATURE COEFFICIENT OF RESISTANCE

- = Base on spec

### (5) TAPING REEL

07 = 7 inch dia, Reel 13 = 13 inch dia, Reel

### (6) RESISTANCE VALUE

There are 2~4 digits indicated the resistor value. Letter R/K/M is decimal point. Detailed resistance rules show in table of "Resistance rule of global part number".

### (7) DEFAULT CODE

number

Letter L is the system default code for ordering only. (Note)

#### Resistance code rule Example 0R 0R = Jumper $IR = I \Omega$ **XRXX** $IR5 = 1.5 \Omega$ (1 to 9.76 $\Omega$ ) $9R76 = 9.76 \Omega$ **XXRX** $IOR = IO \Omega$ $97R6 = 97.6 \Omega$ (10 to 97.6 $\Omega$ ) **XXXR** $100R = 100 \Omega$ (100 to 976 $\Omega$ )

Resistance rule of global part

# $(100 \text{ to } 976 \Omega)$ XKXX IK = 1,000 Ω (I to 9.76 ΚΩ) 9K76 = 9760 Ω

#### 

### ORDERING EXAMPLE

The ordering code of a YC122 convex chip resistor array, value 1,000  $\Omega$  with ±5% tolerance, supplied in 7-inch tape reel is: YC122-JR-071KL.

### NOTE

- All our RSMD products meet RoHS compliant. "LFP" of the internal 2D reel label mentions "Lead Free Process"
- On customized label, "LFP" or specific symbol printed and the optional "L" at the end of GLOBAL PART NUMBER / 12NC can be added (both are on customer request)



### **PHYCOMP BRAND ordering codes**

Both GLOBAL PART NUMBER (preferred) and I2NC (traditional) codes are acceptable to order Phycomp brand products.

### **GLOBAL PART NUMBER (PREFERRED)**

**VVV VVVVV** I

For detailed information of GLOBAL PART NUMBER and ordering example, please refer to page 2. TC122 series is supplied and ordered by global part number only.

### 12NC CODE

| 2350 |        | XXX    | <u> </u>   |                   |                         |             |
|------|--------|--------|------------|-------------------|-------------------------|-------------|
| (1)  |        | (7     | 2) (3) (4) |                   |                         |             |
|      | TYPE/  |        | TOL.       | RESISTANCE        | PAPER / PE TAPE ON REEL | (units) (2) |
|      | 2×0402 | IN (I) | (%)        | RANGE             | 10,000                  | 50,000      |
|      | ARV321 | 2350   | ±5%        | I to I $M\Omega$  | 013   1xxx              | 013 12xxx   |
|      | ARV322 | 2350   | ±1%        | 10 to 1 $M\Omega$ | 013 2xxxx               | 013 3xxxx   |
|      | Jumper | 2350   | -          | 0 Ω               | 013 91001               |             |
|      |        |        |            |                   |                         |             |

- (1) The resistors have a 12-digit ordering code starting with 2350.
- (2) The subsequent 4 or 5 digits indicate the resistor tolerance and packaging.
- (3) The remaining 4 or 3 digits represent the resistance value with the last digit indicating the multiplier as shown in the table of "Last digit of I2NC".
- (4) "L" is optional symbol (Note).

### **ORDERING EXAMPLE**

The ordering code of a ARV321 resistor, value 1,000 $\Omega$  with ±5% tolerance, supplied in tape of 10,000 units per reel is: 235001311102(L) or YC122-JR-071KL.

| Last digit of 12NC<br>Resistance decade <sup>(3)</sup> | Last digit    |
|--|---------------|
| 0.01 to 0.0976 Ω                                       | 0             |
| 0.1 to 0.976 $\Omega$                                  | 7             |
| I to 9.76 Ω  | 8             |
| 10 to 97.6 Ω   | 9             |
| 100 to 976 $\Omega$                                    | 1             |
| I to 9.76 KΩ   | 2             |
| 10 to 97.6 KΩ  | 3             |
| 100 to 976 K $\Omega$                                  | 4             |
| I to 9.76 $M\Omega$                                    | 5             |
| 10 to 97.6 MΩ  | 6             |
| Example: 0.02 Ω  | = 0200 or 200 |

| Example. | 0.02 12 | _ | 0200 or 200 |
|----------|---------|---|-------------|
|          | 0.3 Ω   | = | 3007 or 307 |
|          | ΙΩ      | = | 1008 or 108 |
|          | 33 ΚΩ   | = | 3303 or 333 |
|          | Ι0 ΜΩ   | = | 1006 or 106 |

### NOTE

- I. All our RSMD products are RoHS compliant. "LFP" of the internal 2D reel label mentions "Lead Free Process"
- 2. On customized label, "LFP" or specific symbol printed and the optional "L" at the end of GLOBAL PART NUMBER / I2NC can be added (both are on customer request)



### <u>MARKING</u> YC102/122 No marking Fig. I YCI04 No marking Fig. 2 YC124/164/324 I-Digit marking Fig. 3 Jumper= $0\Omega$ E-24 series: 3 digits First two digits for significant figure and 3rd digit for number of zeros Fig. 3-1 Value=240K $\Omega$ YC248 I-Digit marking Fig. 4 Jumper= $0\Omega$ E-24 series: 3 digits First two digits for significant figure and 3rd digit for number of zeros Fig. 4-1 Value=240KΩ YC158/358 E-24 series: 3 digits First two digits for significant figure and 3rd digit for number of zeros Fig. 5 Value=24KΩ Fig. 5-1 $Value=240K\Omega$ TCI22 No marking Fig. 6 TCI24

No marking



Fig. 7

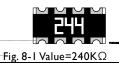
### TC164



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I-Digit marking

Fig. 8 Jumper= $0\Omega$ 



E-24 series: 3 digits

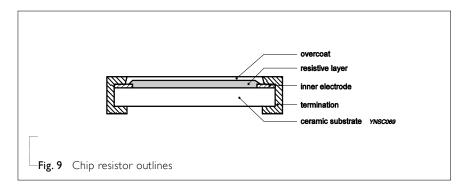
First two digits for significant figure and 3rd digit for number of zeros

For further marking information, please refer to data sheet "Chip resistors marking".

### CONSTRUCTION

The resistor is constructed on top of a high-grade ceramic body. Internal metal electrodes are added on each end to make the contacts to the thick film resistive element. The composition of the resistive element is a noble metal imbedded into a glass and covered by a second glass to prevent environment influences. The resistor is laser trimmed to the rated resistance value. The resistor is covered with a protective epoxy coat, finally the two external terminations (matte tin on Nibarrier) are added as shown in Fig.9.

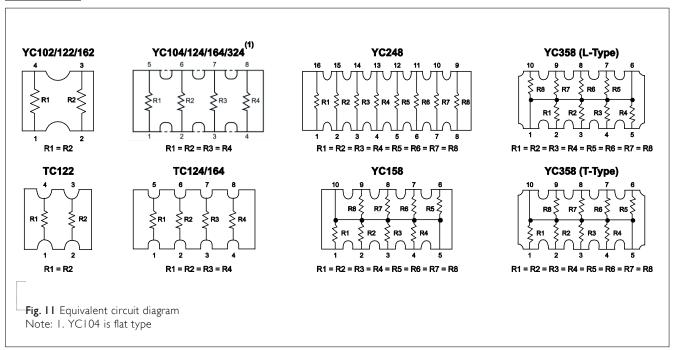
### **OUTLINES**

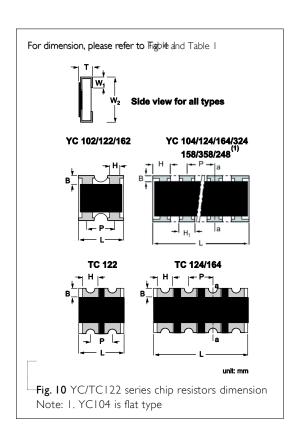




### **SCHEMATIC**

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YAGEO Phicomp

Chip Resistor Surface Mount | YC/TC | SERIES | 102 to 358

### **DIMENSIONS**

| <br>Table | I |
|-----------|---|
|           |   |

| TYPE  | H / H <sub>I</sub>                  | В                  | Р                  | L                  | Т                  | WI                 | W2                 |
|-------|-------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| YC102 | H: 0.35 ±0.10                       | 0.20 <b>±</b> 0.10 | 0.50 ±0.05         | 0.80 ±0.10         | 0.35 <b>±</b> 0.10 | 0.15 <b>±</b> 0.10 | 0.60 ±0.10         |
| YC104 | H: 0.20 ±0.10                       | 0.15 <b>±</b> 0.05 | 0.40 ±0.10         | 1.40 ±0.10         | 0.35 <b>±</b> 0.10 | 0.15 <b>±</b> 0.10 | 0.60 ±0.10         |
| YC122 | H: 0.21 +0.10/-0.05                 | 0.20 ±0.10         | 0.67 <b>±</b> 0.05 | 1.00 ±0.10         | 0.30 ±0.10         | 0.25 <b>±</b> 0.10 | 1.00 ±0.10         |
| YCI24 | H: 0.45 <b>±</b> 0.05               | 0.20 ±0.15         | 0.50.40.05         | 2.00 +0.10         | 0.45 ±0.10         | 0.30 +0.15         | 100 +0 10          |
|       | H <sub>I</sub> : 0.30 <b>±</b> 0.05 | 0.20 ±0.15         | 0.50 ±0.05         | 2.00 ±0.10         | 0.45 <b>±</b> 0.10 | 0.30 ±0.15         | 1.00 ±0.10         |
| YC162 | H: 0.30 ±0.10                       | 0.30 <b>±</b> 0.10 | 0.80 <b>±</b> 0.05 | 1.60 ±0.10         | 0.40 <b>±</b> 0.10 | 0.30 <b>±</b> 0.10 | 1.60 <b>±</b> 0.10 |
| YC164 | H: 0.65 <b>±</b> 0.05               | 0.30 ±0.15         | 0.80 ±0.05         | 3.20 <b>±</b> 0.15 | 0.60 ±0.10         | 0.30 <b>±</b> 0.15 | 1.60 ±0.15         |
|       | H <sub>I</sub> : 0.50 <b>±</b> 0.15 | 0.30 <b>±</b> 0.13 | 0.00 10.03         | 3.20 <b>±</b> 0.13 | 0.00 10.10         | 0.30 ±0.13         | 1.00 ±0.15         |
| YC248 | H: 0.45 <b>±</b> 0.05               | 0.30 ±0.15         | ±0.15 0.50 ±0.05   | 4.00 ±0.20         | 0.45 <b>±</b> 0.10 | 0.40 <b>±</b> 0.15 | 1.60 ±0.15         |
|       | H <sub>I</sub> : 0.30 ±0.05         | 0.30 ±0.13         | 0.50 10.05         | 7.00 ±0.20         | 0.13 10.10         | 0.10 10.13         | 1.00 ±0.15         |
| YC324 | H: 1.10 <b>±</b> 0.15               | 0.50 ±0.20         | 1,27 <b>±</b> 0.05 | 5.08 ±0.20         | 0.60 ±0.10         | 0.50 ±0.15         | 3.20 <b>±</b> 0.20 |
|       | H <sub>1</sub> : 0.90 ±0.15         | 0.30 ±0.20         | 1.27 ±0.03         | 3.00 ±0.20         | 0.00 ±0.10         | 0.50 ±0.15         | J.20 ±0.20         |
| TC122 | H: 0.30 ±0.05                       | 0.25 <b>±</b> 0.15 | 0.50 <b>±</b> 0.05 | 1.00 ±0.10         | 0.30 <b>±</b> 0.10 | 0.25 <b>±</b> 0.15 | 1.00 ±0.10         |
| TC124 | H: 0.30 ±0.10                       | 0.20 <b>±</b> 0.10 | 0.50 <b>±</b> 0.05 | 2.00 <b>±</b> 0.10 | 0.40 <b>±</b> 0.10 | 0.25 <b>±</b> 0.10 | 1.00 ±0.10         |
| TC164 | H: 0.60 <b>±</b> 0.15               | 0.30 <b>±</b> 0.15 | 0.80 <b>±</b> 0.05 | 3.20 <b>±</b> 0.15 | 0.60 <b>±</b> 0.10 | 0.30 <b>±</b> 0.15 | 1.60 <b>±</b> 0.15 |
| YC158 | H: 0.45 <b>±</b> 0.05               | 0.30 <b>±</b> 0.15 | 0.64 <b>±</b> 0.05 | 3.20 <b>±</b> 0.20 | 0.60 ±0.10         | 0.35 <b>±</b> 0.15 | 1.60 <b>±</b> 0.15 |
| YC358 | H: 1.10 <b>±</b> 0.15               | 0.50 ±0.15         | 1.27 <b>±</b> 0.05 | 6.40 ±0.20         | 0.60 ±0.10         | 0.50 ±0.15         | 3.20 ±0.20         |
|       | HI: 0.90±0.15                       | 0.50 <b>±</b> 0.15 | 1.27 ±0.03         | 0.70 <b>±</b> 0.20 | 0.00 ±0.10         | 0.50 <b>±</b> 0.15 | 3.20 <b>±</b> 0.20 |



### **ELECTRICAL CHARACTERISTICS**

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| lab | le | 2 |
|-----|----|---|
|     |    |   |

| TYPE  | POWER<br>P <sub>70</sub> | OPERATING<br>TEMP. RANGE | MWV   | RCOV | DWV  | RESISTANCE RANGE & TOLERANCE   | T. C. R.  | Jumper crit<br>(unit          |            |
|-------|--------------------------|--------------------------|-------|------|------|--|---|-------------------------------|------------|
| YC102 | 1/32W                    | -55°C to +125°C          | 15V   | 30V  | 30V  | E24 $\pm 5\%$ $10\Omega \le R \le 1M\Omega$<br>E24/E96 $\pm 1\%$ $10\Omega \le R \le 1M\Omega$<br>Jumper $< 0.05\Omega$  |   | Rated current<br>Max. current | 0.5<br>1.0 |
| YC104 | 1/32W                    | -55°C to +125°C          | 12.5V | 25V  | 25V  | E24 $\pm$ 5% $10\Omega \le R \le IM\Omega$<br>E24/E96 $\pm$ 1% $10\Omega \le R \le IM\Omega$<br>Jumper $< 0.05\Omega$  |   | Rated current<br>Max. current |            |
| YCI22 | 1/16W                    | -55°C to +125°C          | 50V   | 100V | 100V | $\begin{array}{c cccc} \text{E24} \pm 5\% & \text{I} \Omega \leq \text{R} \leq \text{IM} \Omega \\ \text{E24/E96} \pm \text{I}\% & \text{I} \Omega \leq \text{R} \leq \text{IM} \Omega \\ \text{Jumper} & < 0.05 \Omega \end{array}$         |   | Rated current<br>Max. current |            |
| YCI24 | 1/16W                    | -55°C to +155°C          | 25V   | 50V  | 100V | E24 $\pm$ 5% $ \Omega \le R \le  M\Omega $<br>E24/E96 $\pm$ 1% $ \Omega \le R \le  M\Omega $<br>Jumper $< 0.05\Omega$  | $1\Omega \le R \le 10\Omega$<br>$\pm 250 \text{ ppm/°C}$<br>$10\Omega \le R \le 1M\Omega$<br>$\pm 200 \text{ ppm/°C}$ | Rated current<br>Max. current | 1.0        |
| YC162 | 1/16W                    | -55°C to +125°C          | 50V   | 100V | 100V | $\begin{array}{ccc} \text{E24} \pm 5\% & \text{I} \ \Omega \leq \text{R} \leq \text{IM} \ \Omega \\ \text{E/24/E96} \pm \text{I}\% & \text{I} \ \Omega \leq \text{R} \leq \text{IM} \ \Omega \\ \text{Jumper} & < 0.05 \ \Omega \end{array}$ | - ±200 ррпп С-  | Rated current<br>Max. current |            |
| YC164 | 1/16W                    | -55°C to +155°C          | 50V   | 100V | 100V | $\begin{array}{c c} \text{E24} \pm 5\% & \text{I}\Omega \leq \text{R} \leq \text{IM}\Omega \\ \text{E24/E96} \pm \text{I}\% & \text{I}\Omega \leq \text{R} \leq \text{IM}\Omega \\ \text{Jumper} & < 0.05\Omega \end{array}$                 |   | Rated current<br>Max. current | 1.0<br>2.0 |
| YC248 | 1/16W                    | -55°C to +155°C          | 50V   | 100V | 100V | E24 $\pm$ 5% $10\Omega \le R \le IM\Omega$<br>E24/E96 $\pm$ 1% $10\Omega \le R \le IM\Omega$<br>Jumper $< 0.05\Omega$  |   | Rated current<br>Max. current |            |
| YC324 | 1/8W                     | -55°C to +155°C          | 200V  | 500V | 500V | E24 $\pm$ 5% $10\Omega \le R \le 1M\Omega$<br>E24/E96 $\pm$ 1% $10\Omega \le R \le 1M\Omega$   |   |                               |            |
| TC122 | 1/16W                    | -55°C to +125°C          | 50V   | 100V | 100V | E24 $\pm 5\%$ $10\Omega \le R \le 1M\Omega$<br>E24/E96 $\pm 1\%$ $10\Omega \le R \le 1M\Omega$<br>Jumper $< 0.05\Omega$  |   | Rated current<br>Max. current | 1.0<br>1.5 |
| TC124 | 1/16W                    | -55°C to +125°C          | 50V   | 100V | 100V | E24 ±5% $10\Omega \le R \le IM\Omega$<br>E24/E96 ±1% $10\Omega \le R \le IM\Omega$<br>Jumper < 0.05Ω   |   | Rated current<br>Max. current | 1.0        |
| TC164 | 1/16W                    | -55°C to +155°C          | 50V   | 100V | 100V | E24 ±5% $10\Omega \le R \le IM\Omega$<br>E24/E96 ±1% $10\Omega \le R \le IM\Omega$<br>Jumper < 0.05Ω   |   | Rated current<br>Max. current | 1.0        |
| YCI58 | 1/16W                    | -55°C to +155°C          | 25V   | 50V  | 50V  | E24 ±5%   10 <b>Ω</b> ≤ R ≤   100K <b>Ω</b>  |   |                               |            |
| YC358 | 1/16W                    | -55°C to +155°C          | 50V   | 100V | 100V | E24 ±5% 10 <b>Ω</b> ≤ R ≤ 330K <b>Ω</b>  |   |                               |            |

### FOOTPRINT AND SOLDERING PROFILES

For recommended footprint and soldering profiles, please refer to data sheet "Chip resistors mounting".

### PACKING STYLE AND PACKAGING QUANTITY

Table 3 Packing style and packaging quantity

| PACKING STYLE             | PACKING STYLE | YC102<br>/104 | YC/TC<br>122 | YC/TC<br>124 | YC162 | YC/TC<br>164 | YC248 | YC324 | YC158  | YC358 |
|---------------------------|---------------|---------------|--------------|--------------|-------|--------------|-------|-------|--------|-------|
| Paper taping reel ( R )   | 7" (178mm)    | 10,000        | 10,000       | 10,000       | 5,000 | 5,000        | 5,000 |       | 5,000  |       |
|                           | 13" (254mm)   |               | 50,000       | 40,000       |       | 20,000       |       |       | 20,000 |       |
| Embossed taping reel ( K) | 7" (178mm)    |               |              |              |       |              | 4,000 | 4,000 |        | 4,000 |

### NOTE

1. For tape and reel specification/dimensions, please refer to data sheet "Chip resistors packing".



### **FUNCTIONAL DESCRIPTION**

### **OPERATING TEMPERATURE RANGE**

YC102/104/122/162, TC122/124 Range:

-55°C to +125°C (Fig.12)

YC124/164/248/324/158/358, TC164 Range:

-55°C to +155°C(Fig.13)

### **POWER RATING**

Each type rated power at 70°C YC102/104 = 1/32 WYC122/124/162/164/248/158/358 = 1/16 W YC324 = 1/8 WTC122/124/164 = 1/16 W



The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

$$V = \sqrt{(P \times R)}$$

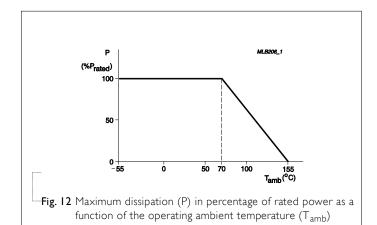
or max. working voltage whichever is less

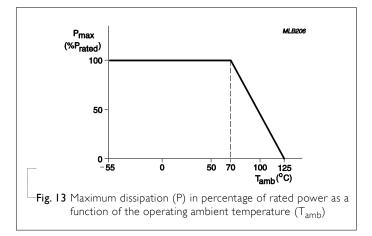
Where

V=Continuous rated DC or AC (rms) working voltage (V)

P=Rated power (W)

R=Resistance value ( $\Omega$ )







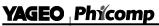
102 to 358

### TESTS AND REQUIREMENTS

**Table 4** Test condition, procedure and requirements

| TEST   | TEST METHOD   | PROCEDURE   | REQUIREMENTS  |
|--|---|---|---|
| Life/<br>Operational Life/<br>Endurance  | MIL-STD-202G-method 108A<br>IEC 60115-1 4.25.1<br>JIS C 5202-7.10 | 1.51  | $\pm (2\% + 0.05 \ \Omega)$<br><100 m $\Omega$ for Jumper |
| High Temperature<br>Exposure/<br>Endurance at<br>Upper Category<br>Temperature | MIL-STD-202G-method 108A<br>IEC 60115-1 4.25.3<br>JIS C 5202-7.11 | I,000 hours at maximum operating temperature depending on specification, unpowered  No direct impingement of forced air to the parts  Tolerances: I25±3 °C  | $\pm$ (1%+0.05 Ω)<br><50 mΩ for Jumper                    |
| Moisture<br>Resistance   | MIL-STD-202G-method 106F<br>IEC 60115-1 4.24.2                    | Each temperature / humidity cycle is defined at 8 hours (method 106F), 3 cycles / 24 hours for 10d with 25 °C / 65 °C 95% R.H., without steps 7a & 7b, unpowered  Parts mounted on test-boards, without condensation on parts |   |
|  |   | Measurement at 24±2 hours after test conclusion   |   |
| Thermal Shock  | MIL-STD-202G-method 107G  | -55/+125 °C  Note: Number of cycles required is 300.  Devices unmounted  Maximum transfer time is 20 seconds. Dwell time is 15 minutes. Air — Air   | $\pm (1\% + 0.05 \ \Omega)$<br><50 m $\Omega$ for Jumper  |
| Short Time<br>Overload   | MIL-R-55342D-para 4.7.5<br>IEC60115-1 4.13                        | 2.5 times RCWV or maximum overload voltage whichever is less for 5 sec at room temperature  | ±(2%+0.05 Ω)<br><50 mΩ for Jumper<br>No visible damage    |
| Board Flex/<br>Bending   | IEC60115-1 4.33   | Device mounted on PCB test board as described, only I board bending required 3 mm bending Bending time: 60±5 seconds Ohmic value checked during bending   | ±(1%+0.05 Ω)<br><50 mΩ for Jumper<br>No visible damage    |





| Chin | Resistor | Surface | Moi |
|------|----------|---------|-----|
|      |          |         |     |

Mount YC/TC SERIES 102 to 358

| TEST                              | TEST METHOD                                  | PROCEDURE   | REQUIREMENTS  |
|-----------------------------------|--|---|---|
| Solderability - Wetting           | IPC/JEDECJ-STD-002B test B IEC 60068-2-58    | Electrical Test not required  Magnification 50X  SMD conditions:  Ist step: method B, aging 4 hours at 155 °C dry heat  2nd step: leadfree solder bath at 245±3 °C  Dipping time: 3±0.5 seconds | Well tinned (≥95% covered)<br>No visible damage                               |
| - Leaching                        | IPC/JEDECJ-STD-002B test D<br>IEC 60068-2-58 | Leadfree solder, 260 °C, 30 seconds immersion time  | No visible damage   |
| - Resistance to<br>Soldering Heat | MIL-STD-202G-method 210F<br>IEC 60068-2-58   | Condition B, no pre-heat of samples Leadfree solder, 270 °C, 10 seconds immersion time Procedure 2 for SMD: devices fluxed and cleaned with isopropanol   | $\pm (1\% + 0.05 \ \Omega)$<br><50 m $\Omega$ for Jumper<br>No visible damage |

102 to 358

12 12

Product specification

REVISION HISTORY

**REVISION** DATE CHANGE NOTIFICATION **DESCRIPTION** 

Version 0 Nov. 14, 2014 - First issue of this specification

<sup>&</sup>quot;Yageo reserves all the rights for revising the content of this datasheet without further notification, as long as the products itself are unchanged. Any product change will be announced by PCN."



### **X-ON Electronics**

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M8340108K1001FCD03 M8340108K2402GGD03 M8340108K3242FGD03 M8340108K3322FCD03 M8340108K6192FGD03

M8340108K6202GGD03 M8340109K2002FCD03 M8340109M4701GCD03 EXB-24N121JX EXB-24N470JX EXB-A10E102J EXB-A10E104J 744C083101JTR MDP1603100KGE04 PRA100I2-1KBWNW GUS-SS4-BLF-01-1002-G ACAS06S0830339P100

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