

# **DATA SHEET**

**ARRAY CHIP RESISTORS** 

YC/TC 5%, 1%

size

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

TC: 122/124/164

**RoHS** compliant



YAGEO Phícomp



#### SCOPE

This specification describes YC (convex, flat) 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**

- · AEC-Q200 qualified
- 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
- Halogen Free Epoxy

#### 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 (PREFERSRED)**

YC XXXX X X X X X XX XXX L/T (8)

## (I) SIZE

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

TC: 122/124/164

#### (2) ARRAYS OR NETWORKS

Array YC102/104/122/124/162/164/248/324: -Network YC158T/YC358L/YC358T: NA

#### (3) TOLERANCE

#### (4) PACKAGING TYPE

R = Paper taping reel K = Embossed plastic tape reel

#### (5) TEMPERATURE COEFFICIENT OF RESISTANCE

- = Base on spec

#### (6) TAPING REEL

07 = 7 inch dia. Reel 13 = 13 inch dia. Reel

#### (7) RESISTANCE VALUE

There are  $2\sim4$  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".

#### (8) DEFAULT CODE

Letter L is the system default code for ordering only. (Note)
Letter T is the only default code for YCI02.

#### **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.

YC158T network, value  $100,000\Omega$  with 5% tolerance, supplied in 7-inch tape reel is: YC158TJR-07100KL

#### NOTE

- All our RSMD products meet 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)

#### Resistance rule of global part number 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** $IOR = IO \Omega$ (10 to 97.6 $\Omega$ ) $97R6 = 97.6 \Omega$ XXXR $100R = 100 \Omega$ (100 to 976 $\Omega$ ) XKXX $IK = 1,000 \Omega$ (I to 9.76 K $\Omega$ ) $9K76 = 9760 \Omega$ ΧM $IM = 1,000,000 \Omega$ $(I M\Omega)$



#### **PHYCOMP BRAND** ordering codes

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

#### GLOBAL PART NUMBER (PREFERRED)

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

| PE/ START TOL. RESISTANCE PAPER / PE TAPE ON REEL (units) (2) 0.01 to (402 IN (1)) (%) RANGE 10,000 50,000 1 to (402 2350 $\pm 5\%$ 1 to 1 MΩ 013 11××× 013 12××× 013 3××× 10 to (402 2350 $\pm 1\%$ 10 to 1 MΩ 013 2××× 013 3××× 100 to (402 2350 $\pm 1\%$ 10 to 1 MΩ 013 2××× 013 3××× 100 to (402 2350 $\pm 1\%$ 10 to 1 MΩ 013 2××× 013 3××× 100 to (402 2350 $\pm 1\%$ 10 to (402 2350 |
|--|
| $\frac{1}{321}$ 2350 ±5%   to   MΩ   013   1 ×××   013   2 ×××   10 to   MΩ   013   2 ×××   10 to   10 t   |
| 7321 2350 $\pm 5\%$   to   M\O   013   1 xxx   013   1 2xxx   7322 2350 $\pm 1\%$   10 to   M\O   013 2xxx   013 3xxxx   10 to   |
| 7322 2350 $\pm 1\%$ 10 to 1 M $\Omega$ 013 2xxxx 013 3xxxx   |
|  |
| per 2350 - 0 $\Omega$ 013 91001 -  |

- (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  $\pm 5\%$  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.I to 0.976 Ω   | 7          |
| I to 9.76 Ω  | 8          |
| 10 to 97.6 $\Omega$                                    | 9          |
| 100 to 976 $\Omega$                                    | 1          |
| I to 9.76 KΩ   | 2          |
| 10 to 97.6 KΩ  | 3          |
| 100 to 976 KΩ  | 4          |
| I to 9.76 $M\Omega$                                    | 5          |
| 10 to 97.6 MΩ  | 6          |

| Example: | 0.02 Ω | = | 0200 or 200 |
|----------|--------|---|-------------|
|          | 0.3 Ω  | = | 3007 or 307 |
|          | ΙΩ     | = | 1008 or 108 |
|          | 33 KΩ  | = | 3303 or 333 |
|          | I0 MO  | = | 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> YCI02 No marking Fig. I YC122 No marking Fig. 2 YCI04 No marking Fig. 3 YC124 / 162 / 164 / 324 I-Digit marking Fig. 4 Jumper= $0\Omega$ E-24 series: 3 digits, 5% First two digits for significant figure and 3rd digit for number of zeros Fig. 4-1 Value=240KΩ YC248 I-Digit marking Fig. 5 Jumper= $0\Omega$ E-24 series: 3 digits, 5% First two digits for significant figure and 3rd digit for number of zeros Fig. 5-1 Value=240K $\Omega$ YC158T/358L/358T E-24 series: 3 digits First two digits for significant figure and 3rd digit for number of zeros Fig. 6-1 Value=240KΩ Fig. 6 Value=24 $\Omega$ TC122 No marking Fig. 7 TCI24

Fig. 8

No marking

Phicomp

#### TC164



I-Digit marking

Fig. 9 Jumper= $\mathbf{0}\Omega$ 



E-24 series: 3 digits, 5%

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

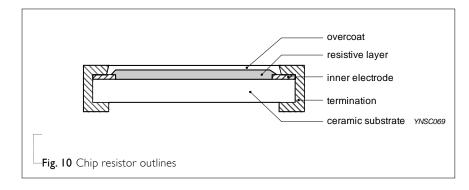
Fig. 9-1 Value=240KΩ

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**

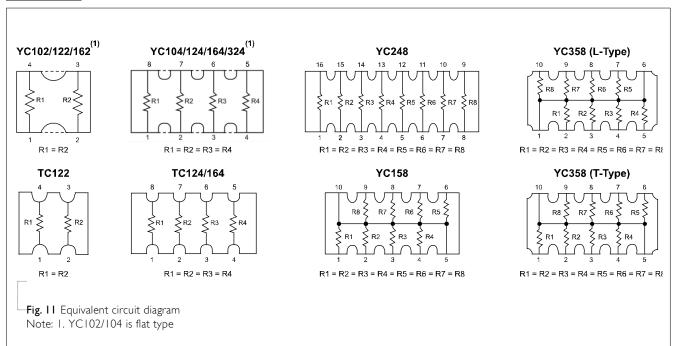


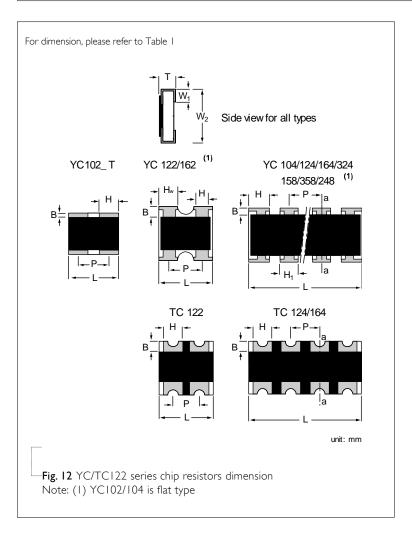


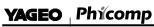
## Chip Resistor Surface Mount YC/TC SERIES

102 to 358

## **SCHEMATIC**







Product specification

Chip Resistor Surface Mount YC/TC SERIES 102 to 358

7 12

## **DIMENSIONS**

| ····· | Ta | h  | ما | 1 |
|-------|----|----|----|---|
|       | ıa | יט | C  |   |

| TYPE             | $H/H_1/H_W$   | В                  | Р                  | L                  | Т                  | WI                 | W2                 |
|------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| YC102            | H: 0.25 ± 0.10  | 0.15 ±0.10         | 0.55 ±0.10         | 0.80 ±0.10         | 0.35 ±0.10         | 0.15 ±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<br>H <sub>w</sub> : 0.35 ±0.10   | 0.20 <b>±</b> 0.10 | 0.67 <b>±</b> 0.05 | 1.00 ±0.10         | 0.30 <b>±</b> 0.10 | 0.25 <b>±</b> 0.10 | 1.00 ±0.10         |
| YC124            | H: 0.40 ± 0.15<br>H <sub>1</sub> : 0.30 ± 0.05        | 0.20 <b>±</b> 0.15 | 0.50 <b>±</b> 0.05 | 2.00 ±0.10         | 0.45 <b>±</b> 0.10 | 0.30 <b>±</b> 0.15 | 1.00 ±0.10         |
| YC162            | H: 0.30 ±0.10<br>H <sub>w</sub> : 0.65 ±0.15          | 0.30 <b>±</b> 0.10 | 0.80 <b>±</b> 0.05 | 1.60 <b>±</b> 0.10 | 0.40 <b>±</b> 0.10 | 0.30 <b>±</b> 0.10 | 1.60 <b>±</b> 0.10 |
| YC164            | H : 0.65 ±0.05<br>H <sub>I</sub> : 0.50 ±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 |
| YC248            | H : 0.45 ±0.05<br>H <sub>1</sub> : 0.30 ±0.05         | 0.30 <b>±</b> 0.15 | 0.50 <b>±</b> 0.05 | 4.00 <b>±</b> 0.20 | 0.45 <b>±</b> 0.10 | 0.40 <b>±</b> 0.15 | 1.60 <b>±</b> 0.15 |
| YC324            | H: 1.10 ±0.15<br>H <sub>I</sub> : 0.90 ±0.15          | 0.50 <b>±</b> 0.20 | 1.27 <b>±</b> 0.05 | 5.08 <b>±</b> 0.20 | 0.60 ±0.10         | 0.50 <b>±</b> 0.15 | 3.20 ±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 ±0.10         | 0.25 <b>±</b> 0.15 | 1.00 ±0.10         |
| TCI24            | H: 0.30 ±0.10   | 0.20 ±0.10         | 0.50 <b>±</b> 0.05 | 2.00 ±0.10         | 0.40 ±0.10         | 0.25 <b>±</b> 0.10 | 1.00 ±0.10         |
| TC164            | H: 0.50 ±0.15   | 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         |
| YCI58T           | H : 0.45 <b>±</b> 0.05<br>H <sub>I</sub> : 0.32± 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 ±0.15         |
| YC358L<br>YC358T | H: 1.10±0.15<br>H <sub>I</sub> : 0.90±0.15            | 0.50 <b>±</b> 0.15 | 1.27 <b>±</b> 0.05 | 6.40 <b>±</b> 0.20 | 0.60 ±0.10         | 0.50 <b>±</b> 0.15 | 3.20 ±0.20         |

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## **ELECTRICAL CHARACTERISTICS**

| Table 2          | 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 ±5% $10\Omega \le R \le IM\Omega$<br>E24/E96 ±1% $10\Omega \le R \le IM\Omega$<br>Jumper < $0.05\Omega$              | - ±200 ppm/°C·   | Rated current<br>Max. current |     |
| YC104            | 1/32W                    | -55°C to +125°C          | 12.5V | 25V  | 25V  | E24 ±5% $10\Omega \le R \le IM\Omega$<br>E24/E96 ±1% $10\Omega \le R \le IM\Omega$<br>Jumper < 0.05Ω                     | 11   | Rated current<br>Max. current |     |
| YC122            | 1/16W                    | -55°C to +155°C          | 50V   | 100V | 100V | E24 $\pm 5\%$ $ \Omega \le R \le  M\Omega $<br>E24/E96 $\pm 1\%$ $ \Omega \le R \le  M\Omega $<br>Jumper $< 0.05\Omega$  | 10.15.110  | 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 $\Omega$ | $\Omega \le R \le 10\Omega$<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 |     |
| YC162            | 1/16W                    | -55°C to +155°C          | 50V   | 100V | 100V | E24 $\pm$ 5%   $\Omega \le R \le IM\Omega$<br>E/24/E96 $\pm$ 1%   $\Omega \le R \le IM\Omega$<br>Jumper < 0.05 $\Omega$  | - ±200 ррпп С  | Rated current<br>Max. current |     |
| YC164            | 1/16W                    | -55°C to +155°C          | 50V   | 100V | 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 $\Omega$ |  | Rated current<br>Max. current |     |
| 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 ±5% $ 0\Omega \le R \le  M\Omega $<br>E24/E96 ±1% $ 0\Omega \le R \le  M\Omega $                                     | -  |                               |     |
| TC122            | 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                     | -<br>- ±200 ppm/°C.  | Rated current<br>Max. current | 1.0 |
| 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                     | - ±200 ррпії С.  | Rated current<br>Max. current |     |
| 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 |     |
| YCI58T           | 1/16W                    | -55°C to +155°C          | 25V   | 50V  | 50V  | E24 ±5%   10 <b>Ω</b> ≤ R ≤   100K <b>Ω</b>  | -  |                               |     |
| YC358L<br>YC358T | 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 | YC158T | YC358L<br>YC358T |
|---------------------------|---------------|---------------|--------------|--------------|-------|--------------|-------|-------|--------|------------------|
| Paper taping reel ( R )   | 7" (178mm)    | 10,000        | 10,000       | 10,000       | 5,000 | 5,000        | 5,000 |       | 5,000  |                  |
|                           | 13" (254mm)   | 50,000        | 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, TC122/124 Range:

-55°C to +125°C (Fig.13)

YC122/124/162/164/248/324/158T/358L/358T, TC164 Range:

-55°C to +155°C(Fig.14)

#### **POWER RATING**

Each type rated power at 70°C YC102/104 = 1/32 WYC122/124/162/164/248/158T/358L/358T = 1/16 WYC324 = 1/8 WTC122/124/164 = 1/16 W

#### **RATED VOLTAGE**

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

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

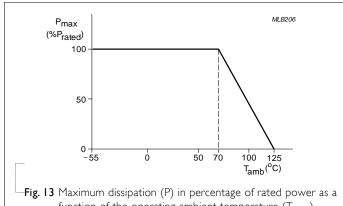
or max. working voltage whichever is less

Where

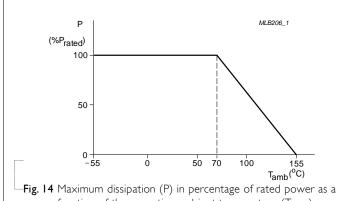
V=Continuous rated DC or AC (rms) working voltage (V)

P=Rated power (W)

R=Resistance value ( $\Omega$ )



function of the operating ambient temperature  $(T_{amb})$ 



function of the operating ambient temperature (T<sub>amb</sub>)

## TESTS AND REQUIREMENTS

Table 4 Test condition, procedure and requirements

| TEST   | TEST METHOD   | PROCEDURE   | REQUIREMENTS  |
|--|---|---|---|
| Life/<br>Operational Life/<br>Endurance  | MIL-STD-202-method 108<br>IEC 60115-1 4.25.1<br>JIS C 5202-7.10 | 1,000 hours at 70±5 °C applied RCWV<br>1.5 hours on, 0.5 hour off, still air required   | $\pm (2\% + 0.05 \ \Omega)$<br>< 100 m $\Omega$ for Jumper                    |
| High Temperature<br>Exposure/<br>Endurance at<br>Upper Category<br>Temperature | MIL-STD-202-method 108<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 $\Omega$ )<br><50 m $\Omega$ for Jumper                        |
| Moisture<br>Resistance   | MIL-STD-202-method 106<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-202-method 107  | -55/+125 °C  Note: Number of cycles required is 300.  Devices mounted  Maximum transfer time is 20 seconds. Dwell time is 15 minutes. Air – Air   | $\pm$ (1%+0.05 Ω)<br><50 mΩ for Jumper  |
| Short Time<br>Overload   | MIL-R-55342-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  | $\pm (2\% + 0.05 \ \Omega)$<br><50 m $\Omega$ 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   | $\pm$ (1%+0.05 $\Omega$ )<br><50 m $\Omega$ for Jumper<br>No visible damage   |



Chip Resistor Surface Mount YC/TC SERIES 102 to 358

| TEST                    | TEST METHOD            | PROCEDURE   | REQUIREMENTS                 |
|-------------------------|------------------------|---|------------------------------|
| Solderability - Wetting | J-STD-002 test         | Electrical Test not required  | Well tinned (≥95% covered)   |
| -                       |                        | Magnification 50X   | No visible damage            |
|                         |                        | SMD conditions:   |                              |
|                         |                        | I <sup>st</sup> step: method B, aging 4 hours at 155 °C<br>dry heat |                              |
|                         |                        | 2 <sup>nd</sup> step: leadfree solder bath at 245±3 °C              |                              |
|                         |                        | Dipping time: 3±0.5 seconds   |                              |
| - Leaching              | J-STD-002 test         | Leadfree solder, 260 °C, 30 seconds immersion time                  | No visible damage            |
| - Resistance to         | MIL-STD-202-method 210 | Condition B, no pre-heat of samples                                 | ±(1%+0.05 Ω)                 |
| Soldering Heat          |                        | Leadfree solder, 260 °C, 10 seconds                                 | $<$ 50 m $\Omega$ for Jumper |
|                         |                        | immersion time  | No visible damage            |
|                         |                        | Procedure 2 for SMD: devices fluxed and cleaned with isopropanol    | Ü                            |
| Biased Humidity         | AEC-Q200 Test 7        | I,000 hours; 85 °C / 85% RH   | ± (5.0%+0.05 Ω)              |
|                         | MIL-STD-202-Method 103 | 10% of operating power  | ,                            |
|                         |                        | Measurement at 24± 4 hours after test conclusion.                   |                              |
|                         |                        | conclusion.   |                              |

## REVISION HISTORY

| REVISION  | DATE          | CHANGE<br>NOTIFICATION | DESCRIPTION  |
|-----------|---------------|------------------------|--|
| Version 9 | Feb.19, 2019  | -                      | - Update H dimension for YC124                                   |
| Version 8 | Dec. 24. 2018 | -                      | - Update AEC-Q200 qualified                                      |
| Version 7 | Aug. 22, 2017 | -                      | - Correct the typo for YC158T/358L/358T, Marking, "240" is 240hm |
| Version 6 | Jun. 1, 2017  | -                      | - Update ordering information for networks YC158T/YC358L/YC358T  |
| Version 5 | Feb. 14, 2017 | -                      | - Update YC158 and 358 part number to YC158T , YC358L and YC358T |
| Version 4 | Dec. 22, 2016 | -                      | - Delete YC102 default code L type                               |
| Version 3 | Apr. 29, 2016 | -                      | - Update YC series and TC164 dimension                           |
| Version 2 | Dec. 11, 2015 | -                      | - Update Operating Temperature                                   |
| Version I | Feb. 04, 2015 | -                      | - Update YC102 to flat type                                      |
| 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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