

# **DATA SHEET**

**ARRAY CHIP RESISTORS** 

YC/TC

5%, 1%

sizes

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

TC: 122/124/164

**RoHS** compliant



YAGEO Phícomp



YC/TC

SERIES

102 to 358

#### 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**

- 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)** 

# (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 2~4 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".

#### (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.

YCI58T network, value  $100,000\Omega$  with 5% tolerance, supplied in 7-inch tape reel is: YCI58TJR-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 o number Resistance code rule	
OR	0R = Jumper
XRXX (1 to 9.76 $\Omega$ )	IR = I Ω IR5 = I.5 Ω 9R76 = 9.76 Ω
XXRX (10 to 97.6 Ω)	IOR = IO Ω 97R6 = 97.6 Ω
XXXR (100 to 976 Ω)	100R = 100 Ω
XKXX (1 to 9.76 KΩ)	IK = 1,000 Ω 9K76 = 9760 Ω
XM (Ι ΜΩ <b>)</b>	IM = 1,000,000 Ω



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

Both GLOBAL PART NUMBER (preferred) and 12NC (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

235			XXXXX L		
(1)		(.	2) (3) (4)		
TYPE/	-	TOL.	RESISTANCE	PAPER / PE TAPE O	N REEL (units) (2)
2×0402	IN <sup>(1)</sup>	(%)	RANGE	10,000	50,000
ARV321	2350	±5%	l to I MΩ	013 11xxx	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 I2NC 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 MΩ	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
	10 MΩ	=	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)

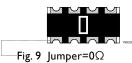


# <u>MARKING</u> YCI02 No marking Fig. I YC122 No marking Fig. 2 YCI04 No marking Fig. 3 YC124/164/324 I-Digit marking Fig. 4 Jumper= $0\Omega$ E-24 series: 3 digits First two digits for significant figure and 3rd digit for number of zeros Fig. 4-1 Value=240KΩ YC248 П I-Digit marking Fig. 5 Jumper= $0\Omega$ E-24 series: 3 digits First two digits for significant figure and 3rd digit for number of zeros Fig. 5-I Value=240KΩ YC158T/358L/358T E-24 series: 3 digits First two digits for significant figure and 3rd digit for number of zeros Fig. 6 Value=24KΩ Fig. 6-1 Value=240K $\Omega$ TC122 No marking Fig. 7 TCI24

Fig. 8

No marking

#### TC164



I-Digit marking



Fig. 9-1 Value=240K $\Omega$ 

E-24 series: 3 digits

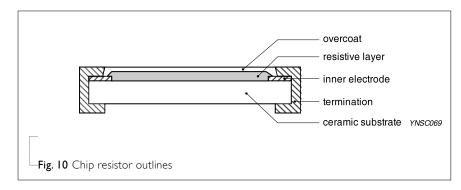
First two digits for significant figure and 3rd digit for number of zeros

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

# CONSTRUCTION

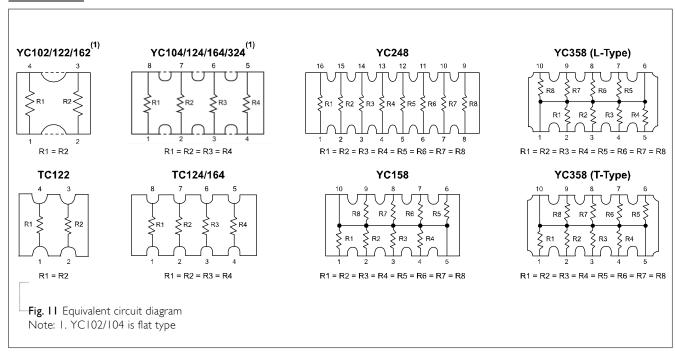
The resistor is constructed on top of a high-grade ceramic body. Internal metal electrodes are added on each end to make the contacts to the thick film resistive element. The composition of the resistive element is a noble metal imbedded into a glass and covered by a second glass to prevent environment 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.

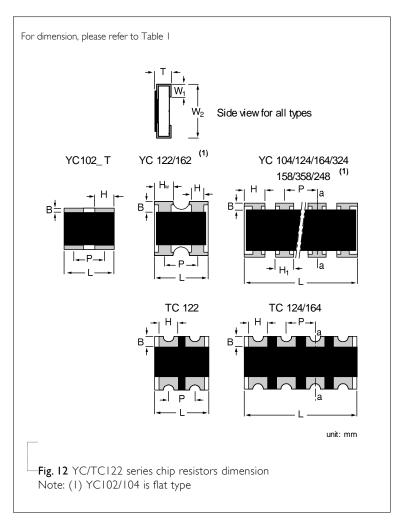
#### **OUTLINES**





# SCHEMATIC





# **DIMENSIONS**

Т	ā	Ы	le	١

$H/H_{I}/H_{W}$	В	Р	L	Т	WI	W2
H: 0.25 ± 0.10	0.15 ±0.10	0.50 ±0.05	0.80 ±0.10	0.35 ±0.10	0.15 ±0.10	0.60 ±0.10
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
H: 0.21+0.10 / -0.05 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
H: $0.45 \pm 0.05$ H <sub>1</sub> : $0.30 \pm 0.05$	0.20 <b>±</b> 0.15	0.50 <b>±</b> 0.05	2.00 ±0.10	0.45 <b>±</b> 0.10	0.30 ±0.15	1.00 ±0.10
H: 0.30 ±0.10 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 ±0.10
H: 0.65 <b>±</b> 0.05	0.30 +0.15	0.80 +0.05	3 20 +0 15	0.60 +0.10	030 +0 15	1.60 <b>±</b> 0.15
H <sub>I</sub> : 0.50 <b>±</b> 0.15	0.30 ±0.13	0.00 ±0.03	3.20 <b>±</b> 0.13	0.00 ±0.10	0.50 ±0.15	1,00 ±0,13
H: 0.45 <b>±</b> 0.05	0.30 +0.15	0.50.+0.05	400 +020	0.45 +0.10	0.40 +0.15	1.60 <b>±</b> 0.15
H <sub>I</sub> : 0.30 <b>±</b> 0.05	0.50 ±0.15	0.50 ±0.05	1,00 ±0,20 0,73 ±0,10		0.10 ±0.15	1.00 ±0.13
H:1.10 <b>±</b> 0.15	0.50 +0.20	1 27 +0 05	5.08.+0.20	0.60 +0.10	050 +0 15	3.20 <b>±</b> 0.20
H <sub>I</sub> : 0.90 <b>±</b> 0.15	0.50 ±0.20	1.27 ±0.03	5.00 <b>±</b> 0.20	0.00 ±0.10	0.50 ±0.15	J.20 <b>1</b> 0.20
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
H: 0.30 ±0.10	0.20 <b>±</b> 0.10	0.50 <b>±</b> 0.05	2.00 ±0.10	0.40 <b>±</b> 0.10	0.25 <b>±</b> 0.10	1.00 ±0.10
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 ±0.15	1.60 ±0.15
H: 0.45±0.05	0.30 +0.15	0.64 +0.05	3 20 +0 20	0.60 +0.10	0.35 +0.15	1.60 ±0.15
H <sub>I</sub> : 0.32± 0.05	0.30 ±0.13	0.04 ±0.03	3.20 <b>±</b> 0.20	0.00 ±0.10	0.55 ±0.15	1.00 ±0.15
H:1.10±0.15	0.50 +0.15	1 27 +0 05	6.40.+0.20	0.60 +0.10	050 +0 15	3,20 <b>±</b> 0,20
H <sub>I</sub> : 0.90 <b>±</b> 0.15	0.50 ±0.15	1,27 ±0,05	0.10 <b>1</b> 0.20	0.00 ±0.10	0.50 <b>1</b> 0.15	3.20 <b>±</b> 0.20
	H: 0.25 ± 0.10  H: 0.20 ± 0.10  H: 0.21 + 0.10 / -0.05  H <sub>w</sub> : 0.35 ± 0.10  H: 0.45 ± 0.05  H <sub>1</sub> : 0.30 ± 0.05  H: 0.65 ± 0.15  H: 0.65 ± 0.05  H <sub>1</sub> : 0.50 ± 0.15  H: 0.45 ± 0.05  H: 0.30 ± 0.05  H: 1.10 ± 0.15  H: 0.30 ± 0.05  H: 0.30 ± 0.15	H: 0.25 ± 0.10  H: 0.20 ± 0.10  O.15 ±0.05  H: 0.21+0.10 / -0.05  H <sub>w</sub> : 0.35 ±0.10  H: 0.45 ± 0.05  H <sub>1</sub> : 0.30 ± 0.05  H: 0.30 ± 0.15  H: 0.65 ±0.15  H: 0.65 ±0.05  H <sub>1</sub> : 0.50 ±0.15  H: 0.45 ± 0.05  H: 0.45 ± 0.05  H: 0.45 ± 0.05  H: 0.30 ±0.15  H: 0.45 ± 0.05  H: 1.10 ±0.15  H: 0.30 ±0.15  O.30 ±0.15  H: 0.30 ±0.15  H: 0.30 ±0.15  O.30 ±0.15  H: 0.30 ±0.15  H: 0.45±0.05  H <sub>1</sub> : 0.32±0.05  H: 1.10±0.15	H: 0.25 ± 0.10  H: 0.20 ± 0.10  O.15 ±0.05  O.40 ±0.10  H: 0.21+0.10 / -0.05  H <sub>w</sub> : 0.35 ±0.10  H: 0.45 ± 0.05  H <sub>i</sub> : 0.30 ± 0.05  H: 0.30 ± 0.05  H: 0.30 ±0.10  H: 0.65 ±0.15  O.30 ±0.05  H: 0.30 ±0.05  H: 0.30 ±0.05  H: 0.30 ±0.15  O.30 ±0.15  O.30 ±0.15  O.30 ±0.15  O.30 ±0.15  O.30 ±0.15  O.30 ±0.05  H: 0.30 ±0.05  O.30 ±0.15  O.30 ±0.15  O.30 ±0.15  O.30 ±0.05  O.30 ±0.15  O.30 ±0.15  O.30 ±0.05	H: 0.25 ± 0.10  H: 0.25 ± 0.10  O.15 ±0.05  O.40 ±0.10  I.40 ±0.10  H: 0.21+0.10 / -0.05  H <sub>w</sub> : 0.35 ±0.10  H: 0.45 ± 0.05  O.20 ±0.15  O.50 ±0.05  I.00 ±0.10  H: 0.30 ± 0.05  H <sub>i</sub> : 0.30 ± 0.05  O.30 ± 0.10  O.30 ± 0.10  O.30 ± 0.15  O.30 ± 0.05  H <sub>i</sub> : 0.50 ± 0.05  H <sub>i</sub> : 0.50 ± 0.05  O.30 ± 0.15  O.30 ± 0.15  O.30 ± 0.05  H <sub>i</sub> : 0.50 ± 0.15  O.30 ± 0.15  O.30 ± 0.15  O.50 ± 0.05  H <sub>i</sub> : 0.50 ± 0.05  H <sub>i</sub> : 0.30 ± 0.05  O.50 ± 0.20  O.50 ± 0.20  H <sub>i</sub> : 0.30 ± 0.05  H <sub>i</sub> : 0.30 ± 0.15  O.50 ± 0.05  O.50 ±	H: 0.25 ± 0.10	H: 0.25 ± 0.10

E24  $\pm 5\%$   $10\Omega \le R \le 1M\Omega$ 

 $10\Omega \le R \le$ 

 $10\Omega \le R \le$ 

 $\text{IOOK}\Omega$ 

330K**Ω** 

 $E24/E96 \pm 1\% \quad I0\Omega \le R \le IM\Omega$ 

Jumper  $< 0.05 \Omega$ 

E24 ±5%

E24 ±5%

#### 8 12

# ELECTRICAL CHARACTERISTICS

Table 2	2								
TYPE	POWER P <sub>70</sub>	OPERATING TEMP. RANGE	MWV	RCOV	DWV	RESISTANCE RANGE & TOLERANCE	T. C. R.	Jumper crit (unit	
YC102	1/32W	-55°C to +125°C	15V	30V	30V	E24 $\pm 5\%$ $10\Omega \le R \le 1M\Omega$ E24/E96 $\pm 1\%$ $10\Omega \le R \le 1M\Omega$ Jumper $< 0.05\Omega$	1200 /90	Rated current Max. current	
YCI04	1/32W	-55°C to +125°C	12.5V	25V	25V	E24 $\pm$ 5% $ 0\Omega \le R \le  M\Omega $ E24/E96 $\pm$ 1% $ 0\Omega \le R \le  M\Omega $ Jumper $< 0.05\Omega$	±200 ppm/°C-	Rated current Max. current	
YCI22	1/16W	-55°C to +155°C	50V	100V	100V	E24 $\pm$ 5%   $\Omega \le R \le  M\Omega $ E24/E96 $\pm$ 1%   $\Omega \le R \le  M\Omega $ Jumper $<$ 0.05 $\Omega$		Rated current Max. current	
YCI24	1/16W	-55°C to +155°C	25V	50V	100V	E24 $\pm$ 5%   $\Omega \le R \le  M\Omega $ E24/E96 $\pm$ 1%   $\Omega \le R \le  M\Omega $ Jumper $<$ 0.05 $\Omega$	$1\Omega \le R \le 10\Omega^{-1}$ $\pm 250 \text{ ppm/°C}$ $10\Omega \le R \le 1M\Omega$ $\pm 200 \text{ ppm/°C}$	Rated current Max. current	
YC162	1/16W	-55°C to +155°C	50V	100V	100V	E24 $\pm$ 5%   $\Omega \le R \le  M\Omega $ E/24/E96 $\pm$ 1%   $\Omega \le R \le  M\Omega $ Jumper $<$ 0.05 $\Omega$	±200 ррпп С-	Rated current Max. current	
YC164	1/16W	-55°C to +155°C	50V	100V	100V	E24 $\pm$ 5%   $\Omega \le R \le  M\Omega $ E24/E96 $\pm$ 1%   $\Omega \le R \le  M\Omega $ Jumper $<$ 0.05 $\Omega$		Rated current Max. current	
YC248	1/16W	-55°C to +155°C	50V	100V	100V	E24 $\pm$ 5% $  \Omega\Omega \le R \le   M\Omega$ E24/E96 $\pm$ 1% $  \Omega\Omega \le R \le   M\Omega$ Jumper $< 0.05\Omega$	-	Rated current Max. current	
YC324	1/8W	-55°C to +155°C	200V	500V	500V	E24 $\pm$ 5% $10\Omega \le R \le IM\Omega$ E24/E96 $\pm$ 1% $10\Omega \le R \le IM\Omega$	<del>-</del>		
TCI22	1/16W	-55°C to +125°C	50V	100V	100V	E24 $\pm$ 5% $10\Omega \le R \le 1M\Omega$ E24/E96 $\pm$ 1% $10\Omega \le R \le 1M\Omega$ Jumper $< 0.05\Omega$	±200 ppm/°C-	Rated current Max. current	1.0
TCI24	1/16W	-55°C to +125°C	50V	100V	100V	E24 $\pm$ 5% $10\Omega \le R \le 1M\Omega$ E24/E96 $\pm$ 1% $10\Omega \le R \le 1M\Omega$ Jumper $< 0.05\Omega$		Rated current Max. current	

# FOOTPRINT AND SOLDERING PROFILES

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

100V

50V

100V

#### PACKING STYLE AND PACKAGING QUANTITY

-55°C to +155°C

-55°C to +155°C

-55°C to +155°C

50V

25V

50V

100V

50V

100V

Table 3 Packing style and packaging quantity

PACKING STYLE	PACKING STYLE	YC102/ 104	YC/TC 122	YC/TC 124	YC162	YC/TC 164	YC248	YC324	YC158T	YC358L 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	40,000		20,000			20,000	
Embossed taping reel ( K)	7" (178mm)						4,000	4,000		4,000

#### NOTE

TC164

YC158T

YC358L

YC358T

1/16W

1/16W

1/16W

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



Rated current 1.0

2.0

Max. current

### **FUNCTIONAL DESCRIPTION**

#### **OPERATING TEMPERATURE RANGE**

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

-55°C to +125°C (Fig.13)

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

-55°C to +155°C(Fig.14)

#### **POWER RATING**

Each type rated power at 70°C YC102/104 = 1/32 W YC122/124/162/164/248/158T/358L/358T = 1/16 W YC324 = 1/8 W

TC122/124/164 = 1/16 W



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

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

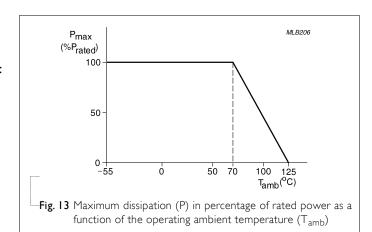
or max. working voltage whichever is less

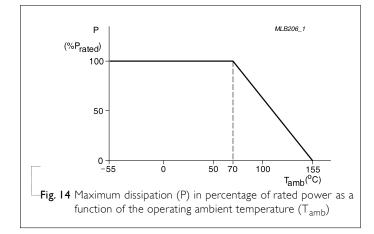
Where

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

P=Rated power (W)

R=Resistance value ( $\Omega$ )







# TESTS AND REQUIREMENTS

Table 4 Test condition, procedure and requirements

L-STD-202G-method I08A C 60115-1 4.25.1 C 5202-7.10 L-STD-202G-method I08A C 60115-1 4.25.3	1.5 hours on, 0.5 hour off, still air required	$\pm (2\% + 0.05~\Omega)$ <100 m $\Omega$ for Jumper
C 5202-7.10 L-STD-202G-method 108A		<100 m $\Omega$ for Jumper
L-STD-202G-method I08A	LOOP because at management against large	
	LOOO bours at movimum apporting	
C 60115-1 4:25 3	1,000 hours at maximum operating	±(1%+0.05 Ω)
C 5202-7.11	temperature depending on specification, unpowered	$<$ 50 m $\Omega$ for Jumper
C 3202-7.11	No direct impingement of forced air to the parts	
	Tolerances: 125±3 °C	
L-STD-202G-method 106F	Each temperature / humidity cycle is defined at	±(2%+0.05 Ω)
IEC 60115-1 4.24.2	8 hours (method 106F), 3 cycles / 24 hours for 10d with 25 °C / 65 °C 95% R.H, without steps 7a $\&$ 7b, unpowered	<100 m $\Omega$ for Jumper
	Parts mounted on test-boards, without condensation on parts	
	Measurement at 24±2 hours after test conclusion	
L-STD-202G-method 107G	-55/+125 °C	±(1%+0.05 Ω)
	Note: Number of cycles required is 300. Devices mounted	$<$ 50 m $\Omega$ for Jumper
	Maximum transfer time is 20 seconds. Dwell time is 15 minutes. Air – Air	
IIL-R-55342D-para 4.7.5	2.5 times RCWV or maximum overload	±(2%+0.05 Ω)
C60115-1 4.13	voltage whichever is less for 5 sec at room	$<$ 50 m $\Omega$ for Jumper
	temperature	No visible damage
C60115-1 4.33	Device mounted on PCB test board as	±(1%+0.05 Ω)
	,	$<$ 50 m $\Omega$ for Jumper
	•	No visible damage
	_	
	L-STD-202G-method 107G	Tolerances: I25±3 °C  Each temperature / humidity cycle is defined at 8 hours (method I06F), 3 cycles / 24 hours for I0d 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  L-STD-202G-method I07G  -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  IL-R-55342D-para 4.7.5  2.5 times RCWV or maximum overload voltage whichever is less for 5 sec at room temperature

Chin	Resistor	Surface	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) No visible damage
- Leaching	IPC/JEDECJ-STD-002B test D IEC 60068-2-58	Leadfree solder, 260 °C, 30 seconds immersion time	No visible damage
- Resistance to Soldering Heat	MIL-STD-202G-method 210F 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 $\Omega$ ) <50 m $\Omega$ for Jumper No visible damage

# REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
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

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