## DATA SHEET

 MiRAM GHIP RiESISTOISYC/TC
5\%, |\%
sizes
YC: $102 / 104 / 122 / \mid 24 / 162 / 164 / 248 / 324 / 158 / 358$
TC: I22/I 24/I64
RoHS compliant


YAC=O
Phicomp


## 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


## ORDERJNG INFORMATION - GLOBAL PART NUMBER \& I2NC

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)


(I) SIZE

YC: $102 / 104 /|22 /| 24 / 162 / 164 / 248 / 324 / 158 / 358$
TC: I22/I24/I64
(2) TOLERANCE
$F= \pm 1 \% \quad J= \pm 5 \% \quad$ (for Jumper ordering, use code of J)
(3) PACKAGING TYPE
$R=$ Paper taping reel $\quad K=$ 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

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

| Resistance rule of number <br> Resistance code rule | obal part <br> Example |
| :---: | :---: |
| OR | OR = jumper |
| $\begin{aligned} & \text { XRXX } \\ & \text { (I to } 9.76 \Omega \text { ) } \end{aligned}$ | $\begin{array}{r} 1 \mathrm{R}=1 \Omega \\ 1 \mathrm{R} 5=1.5 \Omega \\ 9 \mathrm{R} 76=9.76 \Omega \end{array}$ |
| $\begin{aligned} & \text { XXRX } \\ & (10 \text { to } 97.6 \Omega) \end{aligned}$ | $\begin{array}{r} 10 R=10 \Omega \\ 97 R 6=97.6 \Omega \end{array}$ |
| $\begin{aligned} & \text { XXXR } \\ & (100 \text { to } 976 \Omega) \end{aligned}$ | $100 \mathrm{R}=100 \Omega$ |
| $\begin{aligned} & X K X X \\ & \text { (I to } 9.76 \mathrm{~K} \Omega \text { ) } \end{aligned}$ | $\begin{array}{r} 1 \mathrm{~K}=1,000 \Omega \\ 9 \mathrm{~K} 76=9760 \Omega \end{array}$ |
| $\begin{aligned} & X M \\ & (I M \Omega) \end{aligned}$ | $1 M=1,000,000 \Omega$ |

## Ordering example

The ordering code of a YCI 22 convex chip resistor array, value $\mathrm{I}, 000 \Omega$ with $\pm 5 \%$ tolerance, supplied in 7 -inch tape reel is: YCI22-JR-07IKL.

## NOTE

I. 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)

## 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.
TCI 22 series is supplied and ordered by global part number only.

I 2NC CODE

| $\mathbf{2 3 5 0}$ | $\underset{\text { (1) }}{\mathbf{2 3}}$ | $\left.\begin{array}{ll}\text { (3) } & \text { (4) }\end{array}\right)$ |
| :---: | :---: | :---: |


| $\begin{aligned} & \text { TYPE/ } \\ & 2 \times 0402 \end{aligned}$ | $\begin{aligned} & \text { START } \\ & \text { IN }^{(1)} \end{aligned}$ | TOL. <br> (\%) | RESISTANCE RANGE | PAPER / PE TAPE ON REEL (units) ${ }^{(2)}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 10,000 | 50,000 |
| ARV32I | 2350 | $\pm 5 \%$ | 1 to $1 \mathrm{M} \Omega$ | $01311 \times x \times$ | $01312 x x x$ |
| ARV322 | 2350 | $\pm 1 \%$ | 10 to $1 \mathrm{M} \Omega$ | $0132 x \times x x$ | $0133 x \times x x$ |
| Jumper | 2350 | - | $0 \Omega$ | 01391001 |  |

(I) 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 ARV32I resistor, value $1,000 \Omega$ with $\pm 5 \%$ tolerance, supplied in tape of 10,000 units per reel is: $235001311102(\mathrm{~L})$ or YCI22-JR-07IKL.


## 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)

MARKING
YCIO2/I22


No marking
Fig. 1
YCIO4


Fig. 2
YCI24/164/324

## $\square$ <br> 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-I Value $=240 \mathrm{~K} \Omega$

YC248

|  | I-Digit marking |
| :--- | :--- |
| Fig. 4 Jumper $=0 \Omega$ |  |
| E-24 series: 3 digits  <br> Fig. 4-I Value $=240 \mathrm{~K} \Omega$ First two digits for significant figure and 3rd digit for number of zeros |  |

## YCI58/358

|  | E-24 series: 3 digits <br> First two digits for significant figure and 3rd <br> digit for number of zeros |
| :--- | :--- |
| Fig. 5 Value $=24 \mathrm{~K} \Omega$ |  |
| Fig. 5-1 22 | Value $=240 \mathrm{~K} \Omega$ |



Fig. 6
TCI24


No marking
Fig. 7
No marking
, mang

TCI64


I-Digit marking
Fig. 8 Jumper $=0 \Omega$


## $\mathrm{E}-24$ series: 3 digits

First two digits for significant figure and 3rd digit for number of zeros
Fig. 8 - Value $=240 \mathrm{~K} \Omega$
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

## OUTLINES

 coat, finally the two external terminations (matte tin on Nibarrier) are added as shown in Fig.9.


For dimension, please refer to Figble and Table I


Fig. 10 YC/TCI 22 series chip resistors dimension Note: I. YCl 04 is flat type

## D]MENSIONS

Table I

| TYPE | $\mathrm{H} / \mathrm{H}_{1}$ | B | P | L | T | WI | W2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| YCIO2 | $\mathrm{H}: 0.35 \pm 0.10$ | $0.20 \pm 0.10$ | $0.50 \pm 0.05$ | $0.80 \pm 0.10$ | $0.35 \pm 0.10$ | $0.15 \pm 0.10$ | $0.60 \pm 0.10$ |
| YCIO4 | H: $0.20 \pm 0.10$ | $0.15 \pm 0.05$ | $0.40 \pm 0.10$ | $1.40 \pm 0.10$ | $0.35 \pm 0.10$ | $0.15 \pm 0.10$ | $0.60 \pm 0.10$ |
| YCI22 | H: $0.21+0.10 /-0.05$ | $0.20 \pm 0.10$ | $0.67 \pm 0.05$ | $1.00 \pm 0.10$ | $0.30 \pm 0.10$ | $0.25 \pm 0.10$ | $1.00 \pm 0.10$ |
| YCI24 | $\begin{aligned} & H: 0.45 \pm 0.05 \\ & H_{1}: 0.30 \pm 0.05 \end{aligned}$ | $0.20 \pm 0.15$ | $0.50 \pm 0.05$ | $2.00 \pm 0.10$ | $0.45 \pm 0.10$ | $0.30 \pm 0.15$ | $1.00 \pm 0.10$ |
| YCI62 | H: $0.30 \pm 0.10$ | $0.30 \pm 0.10$ | $0.80 \pm 0.05$ | $1.60 \pm 0.10$ | $0.40 \pm 0.10$ | $0.30 \pm 0.10$ | $1.60 \pm 0.10$ |
| YCI64 | $\begin{aligned} & H: 0.65 \pm 0.05 \\ & H_{1}: 0.50 \pm 0.15 \end{aligned}$ | $0.30 \pm 0.15$ | $0.80 \pm 0.05$ | $3.20 \pm 0.15$ | $0.60 \pm 0.10$ | $0.30 \pm 0.15$ | $1.60 \pm 0.15$ |
| YC248 | $\begin{aligned} & H: 0.45 \pm 0.05 \\ & H_{1}: 0.30 \pm 0.05 \end{aligned}$ | $0.30 \pm 0.15$ | $0.50 \pm 0.05$ | $4.00 \pm 0.20$ | $0.45 \pm 0.10$ | $0.40 \pm 0.15$ | $1.60 \pm 0.15$ |
| YC324 | $\begin{aligned} & H: I .10 \pm 0.15 \\ & H_{1}: 0.90 \pm 0.15 \end{aligned}$ | $0.50 \pm 0.20$ | $1.27 \pm 0.05$ | $5.08 \pm 0.20$ | $0.60 \pm 0.10$ | $0.50 \pm 0.15$ | $3.20 \pm 0.20$ |
| TCI22 | $\mathrm{H}: 0.30 \pm 0.05$ | $0.25 \pm 0.15$ | $0.50 \pm 0.05$ | $1.00 \pm 0.10$ | $0.30 \pm 0.10$ | $0.25 \pm 0.15$ | $1.00 \pm 0.10$ |
| TCI24 | $H: 0.30 \pm 0.10$ | $0.20 \pm 0.10$ | $0.50 \pm 0.05$ | $2.00 \pm 0.10$ | $0.40 \pm 0.10$ | $0.25 \pm 0.10$ | $1.00 \pm 0.10$ |
| TCI64 | $\mathrm{H}: 0.60 \pm 0.15$ | $0.30 \pm 0.15$ | $0.80 \pm 0.05$ | $3.20 \pm 0.15$ | $0.60 \pm 0.10$ | $0.30 \pm 0.15$ | $1.60 \pm 0.15$ |
| YCI58 | H: $0.45 \pm 0.05$ | $0.30 \pm 0.15$ | $0.64 \pm 0.05$ | $3.20 \pm 0.20$ | $0.60 \pm 0.10$ | $0.35 \pm 0.15$ | $1.60 \pm 0.15$ |
| YC358 | $\begin{aligned} & H: \quad 1.10 \pm 0.15 \\ & H I: 0.90 \pm 0.15 \end{aligned}$ | $0.50 \pm 0.15$ | $1.27 \pm 0.05$ | $6.40 \pm 0.20$ | $0.60 \pm 0.10$ | $0.50 \pm 0.15$ | $3.20 \pm 0.20$ |

## ELEGTRICAL CHARACTERISTJCS

Table 2

| TYPE | POWER <br> $P_{70}$ | OPERATING TEMP. RANGE | MWV | RCOV | DWV | RESISTANCE RANGE \& TOLERANCE | T. C. R. | Jumper cri <br> (uni | teria <br> : A) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| YCIO2 | I/32W | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ | 15 V | 30V | 30V | E24 $\pm 5 \% \quad 10 \Omega \leq R \leq 1 \mathrm{M} \Omega$ E24/E96 $\pm 1 \% \quad 10 \Omega \leq R \leq 1 \mathrm{M} \Omega$ Jumper $<0.05 \Omega$ | $\pm 200 \mathrm{ppm} /{ }^{\circ} \mathrm{C}$ | Rated current Max. current | 0.5 1.0 |
| YCIO4 | I/32W | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ | 12.5 V | 25 V | 25 V | $\begin{array}{ll} \text { E24 } \pm 5 \% & \quad 10 \Omega \leq R \leq 1 M \Omega \\ \text { E24/E96 } \pm 1 \% & \quad 0 \Omega \leq R \leq 1 M \Omega \\ \text { Jumper }<0.05 \Omega \end{array}$ |  | Rated current Max. current | 0.5 1.0 |
| YCI22 | 1/16W | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ | 50V | I00V | I 00 V | E24 $\pm 5 \% \quad \mid \Omega \leq R \leq I M \Omega$ E24/E96 $\pm 1 \% \quad \mid \Omega \leq R \leq I M \Omega$ Jumper $<0.05 \Omega$ |  | Rated current Max. current | 0.5 1.0 |
| YCI24 | I/I6W | $-55^{\circ} \mathrm{C}$ to $+155^{\circ} \mathrm{C}$ | 25V | 50V | 100V | $\begin{gathered} \text { E24 } \pm 5 \% \quad \mid \Omega \leq R \leq I M \Omega \\ \text { E24/E96 } \pm 1 \% \quad \mid \Omega \leq R \leq I M \Omega \\ \text { Jumper }<0.05 \Omega \end{gathered}$ | $\begin{array}{r} 1 \Omega \leq R \leq 10 \Omega \\ \pm 250 \mathrm{ppm} /{ }^{\circ} \mathrm{C} \\ 10 \Omega \leq R \leq 1 \mathrm{M} \Omega \\ \pm 200 \mathrm{ppm} /{ }^{\circ} \mathrm{C} \end{array}$ | Rated current Max. current | 1.0 2.0 |
| YCI62 | I/I6W | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ | 50V | I 00 V | I OOV | $\begin{array}{cl} \mathrm{E} 24 \pm 5 \% & \quad \Omega \leq \mathrm{R} \leq \mathrm{IM} \Omega \\ \mathrm{E} / 24 / \mathrm{E} 96 \pm 1 \% & \mathrm{I} \Omega \leq \mathrm{R} \leq \mathrm{IM} \Omega \\ \text { Jumper }<0.05 \Omega \end{array}$ |  | Rated current Max. current | 1.0 2.0 |
| YCI64 | 1/16W | $-55^{\circ} \mathrm{C}$ to $+155^{\circ} \mathrm{C}$ | 50V | I 00 V | I OOV | E24 $\pm 5 \%$ $\quad \mid \Omega \leq R \leq I M \Omega$ <br> E24/E96 $\pm 1 \%$ $\mid \Omega \leq R \leq I M \Omega$ <br> Jumper $<0.05 \Omega$  | $\pm 200 \mathrm{ppm} /{ }^{\circ} \mathrm{C}$ | Rated current Max. current | 1.0 2.0 |
| YC248 | 1/16W | $-55^{\circ} \mathrm{C}$ to $+155^{\circ} \mathrm{C}$ | 50V | I00V | I00V | $\begin{aligned} & \text { E24 } \pm 5 \% \quad 10 \Omega \leq R \leq 1 M \Omega \\ & \text { E24/E96 } \pm 1 \% \quad 10 \Omega \leq R \leq 1 M \Omega \\ & \text { Jumper }<0.05 \Omega \end{aligned}$ |  | Rated current Max. current | $\begin{array}{r} 2.0 \\ 10.0 \end{array}$ |
| YC324 | 1/8W | $-55^{\circ} \mathrm{C}$ to $+155^{\circ} \mathrm{C}$ | 200V | 500 V | 500 V | $\begin{array}{rl} \text { E24 } \pm 5 \% & 10 \Omega \leq R \leq I M \Omega \\ \text { E24/E96 } \pm 1 \% & 10 \Omega \leq R \leq I M \Omega \end{array}$ |  | --- | --- |
| TCl22 | 1/16W | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ | 50V | I 00 V | I 00 V | E24 $\pm 5 \% \quad 10 \Omega \leq R \leq 1 M \Omega$ E24/E96 $\pm 1 \% \quad 10 \Omega \leq R \leq 1 \mathrm{M} \Omega$ Jumper $<0.05 \Omega$ |  | Rated current Max. current | 1.0 1.5 |
| TCI24 | 1/16W | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ | 50V | I00V | I 00 V | E24 $\pm 5 \%$ $10 \Omega \leq R \leq I M \Omega$ <br> E24/E96 $\pm 1 \%$ $10 \Omega \leq R \leq 1 \mathrm{M} \Omega$ <br> Jumper $<0.05 \Omega$ |  | Rated current Max. current | 1.0 1.5 |
| TCI64 | 1/16W | $-55^{\circ} \mathrm{C}$ to $+155^{\circ} \mathrm{C}$ | 50V | I00V | I OOV | E24 $\pm 5 \%$ $10 \Omega \leq R \leq 1 \mathrm{M} \Omega$ <br> E24/E96 $\pm 1 \%$ $\quad 10 \Omega \leq R \leq 1 \mathrm{M} \Omega$ <br> Jumper $<0.05 \Omega$  |  | Rated current Max. current | 1.0 2.0 |
| YCI58 | 1/16W | $-55^{\circ} \mathrm{C}$ to $+155^{\circ} \mathrm{C}$ | 25V | 50V | 50V | $\begin{array}{ll} \mathrm{E} 24 \pm 5 \% & \mathrm{I} 0 \Omega \leq \mathrm{R} \leq \\ & \mathrm{I} 00 \mathrm{~K} \Omega \end{array}$ |  | --- | --- |
| YC358 | 1/16W | $-55^{\circ} \mathrm{C}$ to $+155^{\circ} \mathrm{C}$ | 50V | I 00 V | I OOV | $\begin{array}{ll}  & 10 \Omega \leq R \leq \\ \mathrm{E} 24 \pm 5 \% & 10 \Omega \mathrm{R} \leq \\ 330 \mathrm{~K} \Omega \end{array}$ |  | --- | --- |

## POOTPRINT AND SOLDRRNA PROFLESS

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

## PACKING STYLE AND PACKAGJNG QUANTJTY

Table 3 Packing style and packaging quantity

| PACKING STYLE | PACKING STYLE | $\begin{array}{r} \text { YC102 } \\ \hline 104 \\ \hline \end{array}$ | YC/TC $122$ | YC/TC 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 | --- |
|  | $13^{\prime \prime}(254 \mathrm{~mm})$ | --- | 50,000 | 40,000 | --- | 20,000 | --- | --- | 20,000 | --- |
| Embossed taping reel ( K) | 7" (178mm) | --- | --- | --- | --- | --- | 4,000 | 4,000 | --- | 4,000 |

## NOTE

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

Nov. 14, 2014 V.

## FUNCTIONAL DESCRIPTJON

## OPERATING TEMPERATURE RANGE

YCI02/I04/I22/I62, TCI22/I24 Range:
$-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ (Fig.I2)
YCI24/I64/248/324/I58/358, TCI64 Range:
$-55^{\circ} \mathrm{C}$ to $+155^{\circ} \mathrm{C}$ (Fig. 13 )

## POWER RATING

Each type rated power at $70^{\circ} \mathrm{C}$
YCIO2/I04 $=1 / 32 \mathrm{~W}$
YCI22/I24/I62/I64/248/I58/358 $=1 / 16 \mathrm{~W}$
YC324 = $1 / 8 \mathrm{~W}$
TCI22/I24/I64 = I/I6 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)
$\mathrm{P}=$ Rated power (W)
$R=$ Resistance value ( $\Omega$ )


Fig. 12 Maximum dissipation $(P)$ in percentage of rated power as a function of the operating ambient temperature ( $\mathrm{T}_{\mathrm{amb}}$ )


Fig. I3 Maximum dissipation ( $P$ ) in percentage of rated power as a function of the operating ambient temperature ( $\mathrm{T}_{\mathrm{amb}}$ )

## TESTS AND REQUUREMENTS

Table 4 Test condition, procedure and requirements

| TEST | TEST METHOD | PROCEDURE | REQUIREMENTS |
| :--- | :--- | :--- | :--- |
| Life/ | MIL-STD-202G-method 108 A | 1,000 hours at $70 \pm 5{ }^{\circ} \mathrm{C}$ applied RCW | $\pm(2 \%+0.05 \Omega)$ |
| Operational Life/ | IEC 60II5-I 4.25 .1 | 1.5 hours on, 0.5 hour off, still air required | $<100 \mathrm{~m} \Omega$ for Jumper |
| Endurance | IIS $5202-7.10$ |  |  |

JIS C 5202-7.IO

| High Temperature | MIL-STD-202G-method I08A | $I, 000$ hours at maximum operating | $\pm(1 \%+0.05 \Omega)$ |
| :--- | :--- | :--- | :--- |
| Exposure/ | IEC 60II5-I 4.25.3 | temperature depending on specification, | $<50 \mathrm{~m} \Omega$ for Jumper |
| Endurance at | JIS C 5202-7.II | unpowered |  |
| Upper Category |  | No direct impingement of forced air to the |  |
| Temperature |  | parts |  |
|  | Tolerances: $125 \pm 3^{\circ} \mathrm{C}$ |  |  |


| Moisture | MIL-STD-202G-method I06F | Each temperature / humidity cycle is defined at | $\pm(2 \%+0.05 \Omega)$ |
| :---: | :---: | :---: | :---: |
| Resistance | IEC 60II5-I 4.24.2 | 8 hours (method I06F), 3 cycles / 24 hours for IOd with $25{ }^{\circ} \mathrm{C} / 65^{\circ} \mathrm{C} 95 \%$ R.H, without steps 7a \& 7b, unpowered | < $100 \mathrm{~m} \Omega$ for Jumper |
|  |  | Parts mounted on test-boards, without condensation on parts |  |
|  |  | Measurement at $24 \pm 2$ hours after test conclusion |  |


| Thermal Shock MIL-STD-202G-method IO7G | $-55 /+125^{\circ} \mathrm{C}$ | $\pm(1 \%+0.05 \Omega)$ |
| :--- | :--- | :--- |
|  | Note: Number of cycles required is 300. | $<50 \mathrm{~m} \Omega$ for Jumper |
|  | Devices unmounted |  |
|  | Maximum transfer time is 20 seconds. Dwell |  |
|  | time is 15 minutes. Air - Air |  |


| Short Time Overload | MIL-R-55342D-para 4.7.5 IEC60II5-I 4.13 | 2.5 times RCW or maximum overload voltage whichever is less for 5 sec at room temperature | $\pm(2 \%+0.05 \Omega)$ <br> $<50 \mathrm{~m} \Omega$ for Jumper <br> No visible damage |
| :---: | :---: | :---: | :---: |
| Board Flex/ Bending | IEC60II 5 -I 4.33 | Device mounted on PCB test board as described, only I board bending required 3 mm bending <br> Bending time: $60 \pm 5$ seconds <br> Ohmic value checked during bending | $\pm(\mid \%+0.05 \Omega)$ <br> $<50 \mathrm{~m} \Omega$ for Jumper <br> No visible damage |


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

## X-ON Electronics

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CS6600552K000B8768 CSC08A01470KGEK M8340105K1002FGD03 M8340106MA010FHD03 M8340107K1471FGD03
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
ACAS06S0830343P100 ACAS06S0830344P100 RM2012A-102/104-PBVW10 RM2012A-102503-PBVW10 RM3216B-102302-PBVW10
L091S102LF ACAS06S0830341P100 ACAS06S0830342P100 ACAS06S0830345P100 EXB-14V300JX EXB-U18330JX EXB-V8V220GV
PRA100I2-10KBWN PRA100I4-10KBWN M8340102M4701JAD04 M8340105K1002GGD03 M8340105M1001JCD03
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