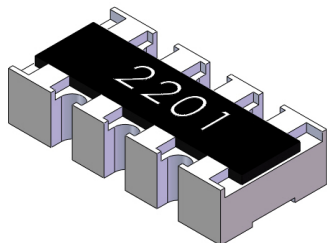


Thick Film Chip Resistor Arrays Convex Terminal

multicomp PRO

RoHS
Compliant

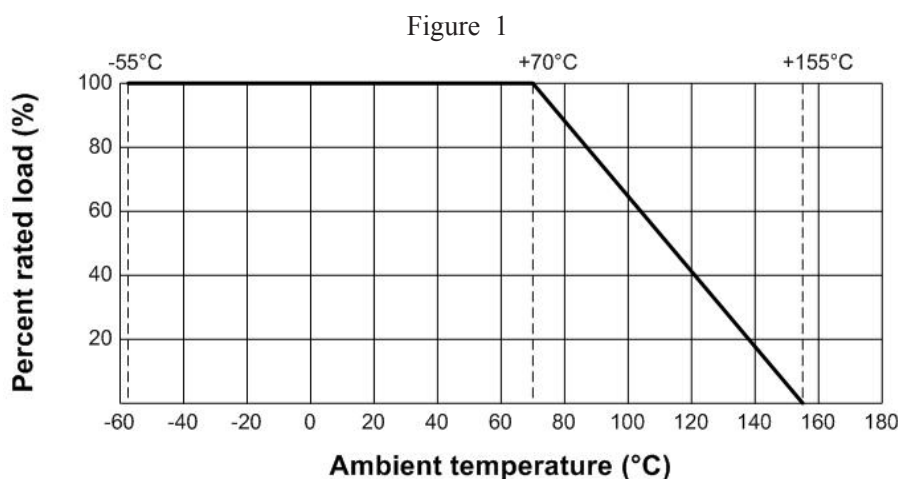


1. Ratings:

Type	4 Elements, 0804
Power Rating	0.0625W (1/16W)
Rated Current (Jumper)	1A
Max. Working Voltage	50 V
Max. Overload Voltage	100 V
Dielectric Withstanding Voltage	100 V
Temperature Range	-55°C to +155°C
Ambient Temperature	70°C

1.1 Power rating:

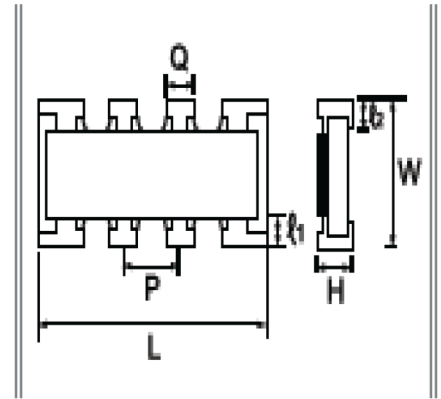
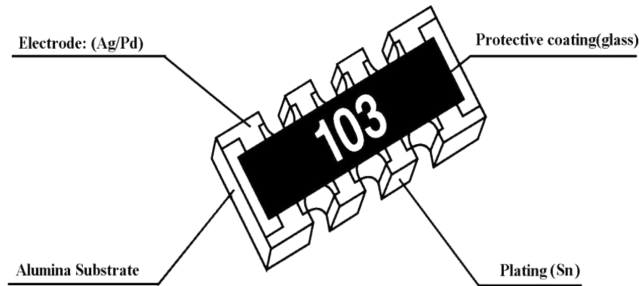
Resistors shall have a power rating based on continuous load operation at an ambient temperature of 70°C . For temperature in excess of 70°C , The load shall be derate as shown in figure 1.



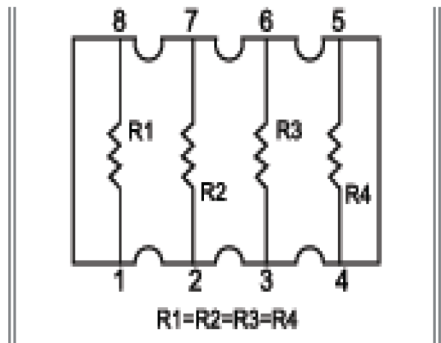
Thick Film Chip Resistor Arrays Convex Terminal



2. Construction



3. Power rating and dimensions



Dimension

Dimension (mm)						
L	W	H	ℓ1	ℓ2	P	Q
2 ±0.1	1 ±0.1	0.45 ±0.1	0.2 ±0.15	0.3 ±0.15	0.5 ±0.05	0.3 ±0.05

Power Rating

Power Rating at 70°C	Tolerance %	Resistance Range	T.C.R. PPM/°C	Standard Resistance values
0.0625W(1/16W)	Jumper ± 5	< 50mΩ 10Ω to 1MΩ	±200	E-24

4. Marking :

4.1 Resistors

A. Marking for E-26 series in 0804 size : 4 Digits

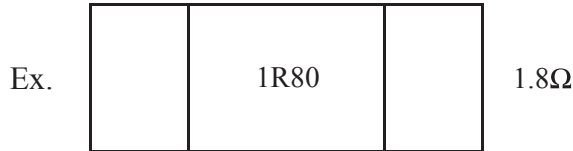
*The first 3 digits are significant figures of resistance and the 4th digit denoted number of zeros.



Thick Film Chip Resistor Arrays Convex Terminal



*For ohmic values below 100 Ω, letter "R" is for decimal point.

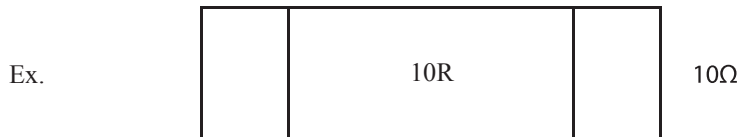


B. Marking for E-24 series.

*The first 2 digits are significant figures of resistance and the 3rd digit denoted number of zeros.



**For ohmic values below 100 Ω, letter "R" is for decimal point.



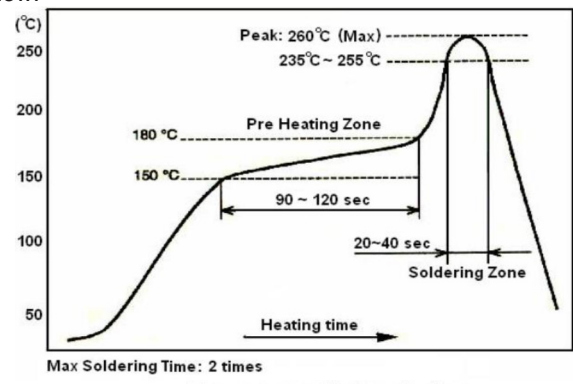
5. Performance specification

Characteristics	Limits	Test Methods (JIS C 5201-1)
Temperature Coefficient	Refer to item 5.	5.2 Natural resistance change per temp. degree centigrade. $\frac{R2-R1}{R1(t2-t1)} \times 10^6 \text{ (PPM/°C)}$ R1: Resistance value at room temperature (T1) R2: Resistance value at room temp. plus 100°C (T2) (Sub-clause 4.8)
Short time overload	Resistance change rate is ± 5% (2% + 0.1Ω) Max. ± 1% (1% + 0.1Ω) Max.	5.5 Permanent resistance change after the application of a potential of 2.5 times RCWV for 5 seconds
Dielectric withstanding voltage	No evidence of flashover mechanical damage, arcing or insulation break down	4.7 Clamped in the trough of a 90° metallic V-block and shall be tested at AC potential respectively specified in the table 1. for 60 +10/-0 secs.
Terminal bending	Resistance change rate is ± (1% + 0.05Ω) Max.	6.1.4 Twist of Test Board Y/X = 5/90 mm for 10 seconds



Thick Film Chip Resistor Arrays Convex Terminal



Characteristics	Limits	Test Methods (JIS C 5201-1)															
Solderability	95 % coverage Min.	6.5 Test temperature of solder : $245 \pm 3^\circ\text{C}$ Dipping them solder : 2~3 seconds															
	Go up tin rate bigger than half of end pole.	Reflow:  <p>Temperature profile for evaluation</p>															
Soldering heat	Resistance change rate is: $\pm (1\% + 0.05\Omega)$ Max.	4.18 Dip the resistor into a solder bath having a temperature of $260^\circ\text{C} \pm 3^\circ\text{C}$ and hold it for 10 ± 1 seconds.															
Temperature cycling	Resistance change rate is $\pm 5\% (1\% + 0.05\Omega)$ Max. $\pm 1\% (0.5\% + 0.05\Omega)$ Max.	7.4 Resistance change after continuous 5 cycles for duty cycle specified below :															
		<table border="1"> <thead> <tr> <th>Step</th> <th>Temperature</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>$-55^\circ\text{C} \pm 3^\circ\text{C}$</td> <td>30 mins</td> </tr> <tr> <td>2</td> <td>Room temp.</td> <td>10 to 15 mins</td> </tr> <tr> <td>3</td> <td>$+155^\circ\text{C} \pm 2^\circ\text{C}$</td> <td>30 mins</td> </tr> <tr> <td>4</td> <td>Room temp.</td> <td>10 to 15 mins</td> </tr> </tbody> </table>	Step	Temperature	Time	1	$-55^\circ\text{C} \pm 3^\circ\text{C}$	30 mins	2	Room temp.	10 to 15 mins	3	$+155^\circ\text{C} \pm 2^\circ\text{C}$	30 mins	4	Room temp.	10 to 15 mins
		Step	Temperature	Time													
		1	$-55^\circ\text{C} \pm 3^\circ\text{C}$	30 mins													
		2	Room temp.	10 to 15 mins													
3	$+155^\circ\text{C} \pm 2^\circ\text{C}$	30 mins															
4	Room temp.	10 to 15 mins															
Load life in humidity	Resistance change rate is $\pm 5\% (3\% + 0.1\Omega)$ Max. $\pm 1\% (1\% + 0.1\Omega)$ Max.	7.9 Resistance change after 1,000 hours (1.5 hours "on", 0.5 hour "off") at RCWV in a humidity chamber controlled at $40^\circ\text{C} \pm 2^\circ\text{C}$ and 90 to 95 % relative humidity															
Load Life	Resistance change rate is $\pm 5\% (3\% + 0.1\Omega)$ Max. $\pm 1\% (1\% + 0.1\Omega)$ Max.	7.10 Permanent resistance change after 1,000 hours operating at RCWV, with duty cycle of (1.5 hours"on", 0.5 hour"off") at $70^\circ\text{C} \pm 2^\circ\text{C}$ ambient															



Thick Film Chip Resistor Arrays Convex Terminal

multicomp PRO

Part Number Table

Description	Part Number
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, Jumper, 0804	MP005575
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 1.2K, 0804	MP005576
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 1.5K, 0804	MP005577
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 100K, 0804	MP005578
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 100R, 0804	MP005579
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 10K, 0804	MP005580
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 10R, 0804	MP005581
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 12K, 0804	MP005582
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 150R, 0804	MP005583
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 15R, 0804	MP005584
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 1K, 0804	MP005585
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 1M, 0804	MP005586
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 2.2K, 0804	MP005587
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 2.7K, 0804	MP005588
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 20K, 0804	MP005589
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 220R, 0804	MP005590
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 22K, 0804	MP005591
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 22R, 0804	MP005592
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 27R, 0804	MP005593
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 2K, 0804	MP005594
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 3.3K, 0804	MP005595
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 330R, 0804	MP005596
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 33K, 0804	MP005597
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 33R, 0804	MP005598
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 39K, 0804	MP005599
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 3K, 0804	MP005600
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 4.3K, 0804	MP005601
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 4.7K, 0804	MP005602
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 4.7R, 0804	MP005603
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 470R, 0804	MP005604
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 47K, 0804	MP005605
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 47R, 0804	MP005606
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 5.1K, 0804	MP005607
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 51K, 0804	MP005608
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 51R, 0804	MP005609
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 560R, 0804	MP005610
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 56K, 0804	MP005611

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicomp PRO

Thick Film Chip Resistor Arrays Convex Terminal

multicomp PRO

Description	Part Number
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 56R, 0804	MP005612
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 6.8K, 0804	MP005613
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 680R, 0804	MP005614
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 68R, 0804	MP005615
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 75R, 0804	MP005616
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 8.2K, 0804	MP005617
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 82R, 0804	MP005618

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicomp PRO