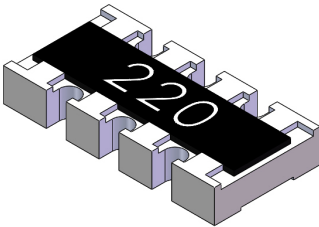


Thick Film Chip Resistor Arrays Convex Terminal

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RoHS
Compliant

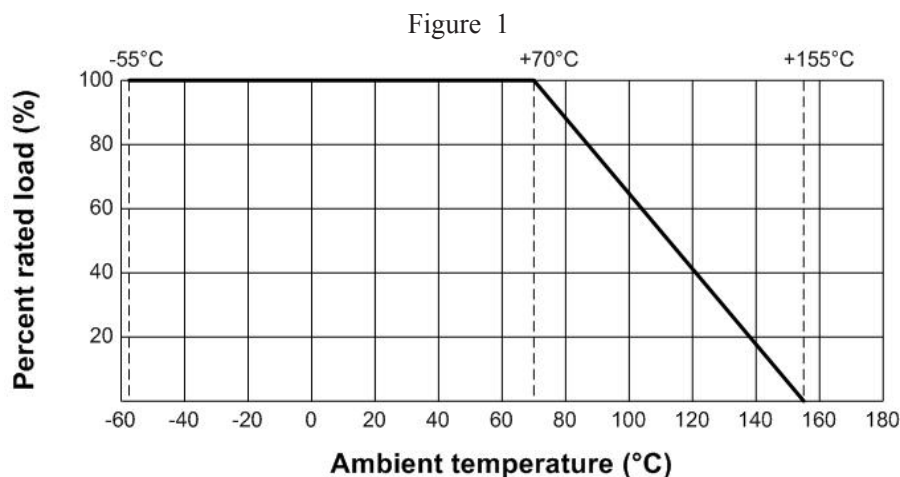


1. Ratings:

Type	4 Elements, 1206
Power Rating	0.0625W (1/16W)
Rated Current (Jumper)	1A
Max. Working Voltage	50 V
Max. Overload Voltage	100 V
Dielectric Withstanding Voltage	300 V
Temperature Range	-55°C to +155°C
Ambient Temperature	70°C

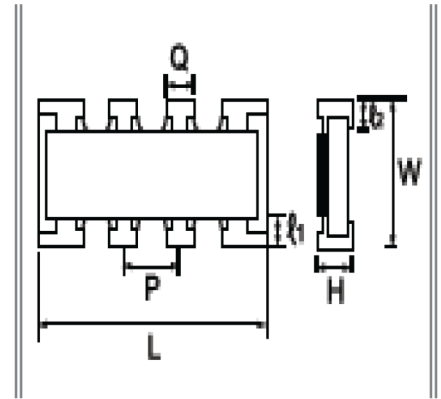
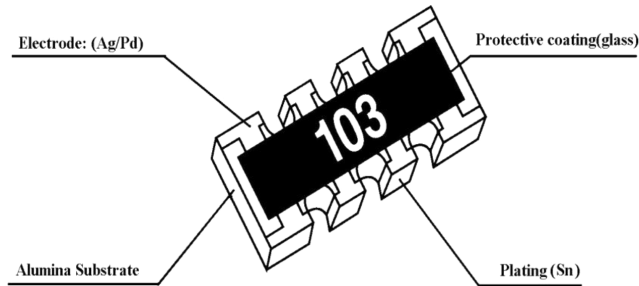
1.1 Power rating:

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.



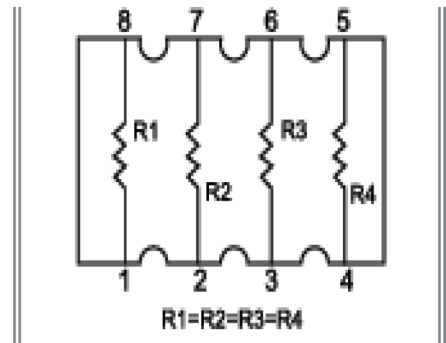
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2. Construction



3. Power rating and dimensions

Equivalent Circuit Diagram



Dimension

Dimension (mm)						
L	W	H	l1	l2	P	Q
3.2 ±0.2	1.6 ±0.2	0.5 ±0.1	0.3±0.15	0.3 ±0.15	0.8 ±0.1	0.5 ±0.15

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	<10Ω:±400 ≥10Ω:±200	E-24

4. Marking :

4.1 Resistors

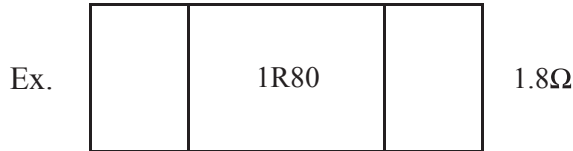
A. Marking for E-26 series in 1206 size : 4 Digits

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



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

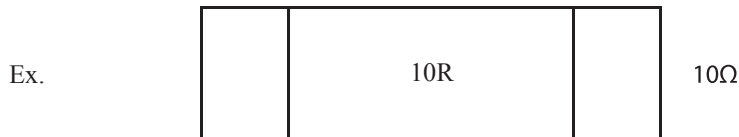


B. Marking for E-24 series in 1206 size : 3 Digits

*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.

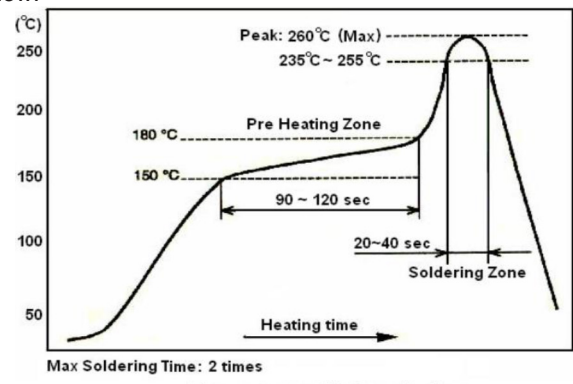


5. Performance specification

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
Insulation resistance	1,000 MΩ or more	5.6 Apply 500V DC between protective coating and termination for 1 min, then measure
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 $\pm 5\%$ ($1.0\% + 0.05\Omega$) 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 $\pm 5\%$ ($3.0\% + 0.1\Omega$) Max. $\pm 1\%$ ($1.0\% + 0.1\Omega$) 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

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Part Number Table

Description	Part Number
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 0R, 1206	MP005619
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 1.2K, 1206	MP005620
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 1.5K, 1206	MP005621
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 1.8K, 1206	MP005622
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 100K, 1206	MP005623
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 100R, 1206	MP005624
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 10K, 1206	MP005625
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 10R, 1206	MP005626
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 120K, 1206	MP005627
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 120R, 1206	MP005628
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 12K, 1206	MP005629
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 150K, 1206	MP005630
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 150R, 1206	MP005631
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 15K, 1206	MP005632
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 15R, 1206	MP005633
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 180K, 1206	MP005634
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 180R, 1206	MP005635
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 18K, 1206	MP005636
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 1K, 1206	MP005637
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 1M, 1206	MP005638
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 2.2K, 1206	MP005639
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 2.4K, 1206	MP005640
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 2.7K, 1206	MP005641
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 20K, 1206	MP005642
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 220K, 1206	MP005643
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 220R, 1206	MP005644
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 22K, 1206	MP005645
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 22R, 1206	MP005646
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 270R, 1206	MP005647
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 27K, 1206	MP005648
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 27R, 1206	MP005649
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 2K, 1206	MP005650
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 3.3K, 1206	MP005651
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 3.9K, 1206	MP005652
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 300K, 1206	MP005653
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 300R, 1206	MP005654
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 330R, 1206	MP005655

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Element14.com/multicomp-pro

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Thick Film Chip Resistor Arrays Convex Terminal

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Description	Part Number
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 33K, 1206	MP005656
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 33R, 1206	MP005657
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 390R, 1206	MP005658
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 39K, 1206	MP005659
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 39R, 1206	MP005660
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 3K, 1206	MP005661
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 4.7K, 1206	MP005662
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 4.7R, 1206	MP005663
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 430R, 1206	MP005664
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 470K, 1206	MP005665
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 470R, 1206	MP005666
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 47K, 1206	MP005667
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 47R, 1206	MP005668
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 5.1K, 1206	MP005669
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 5.6K, 1206	MP005670
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 510R, 1206	MP005671
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 51R, 1206	MP005672
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 560K, 1206	MP005673
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 560R, 1206	MP005674
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 56K, 1206	MP005675
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 56R, 1206	MP005676
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 6.8K, 1206	MP005677
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 680R, 1206	MP005678
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 68K, 1206	MP005679
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 68R, 1206	MP005680
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 75R, 1206	MP005681
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 8.2K, 1206	MP005682
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 820R, 1206	MP005683
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 82K, 1206	MP005684
Chip Resistor Array, Thick Film, Isolated 4 Elements, 1/16W, 5%, 82R, 1206	MP005685

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