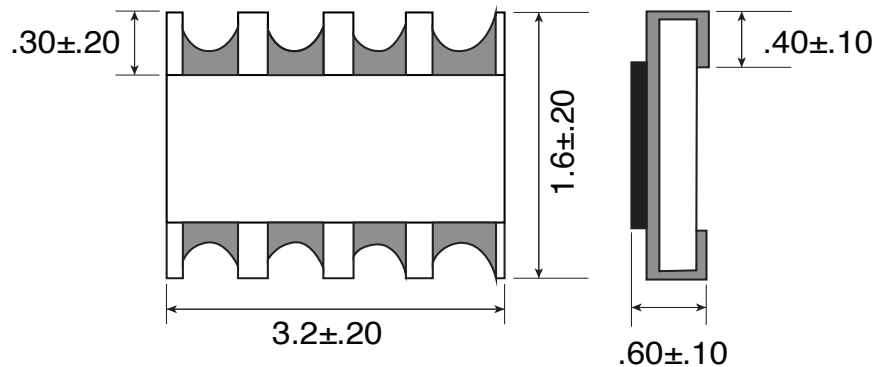


DIMENSIONS: mm

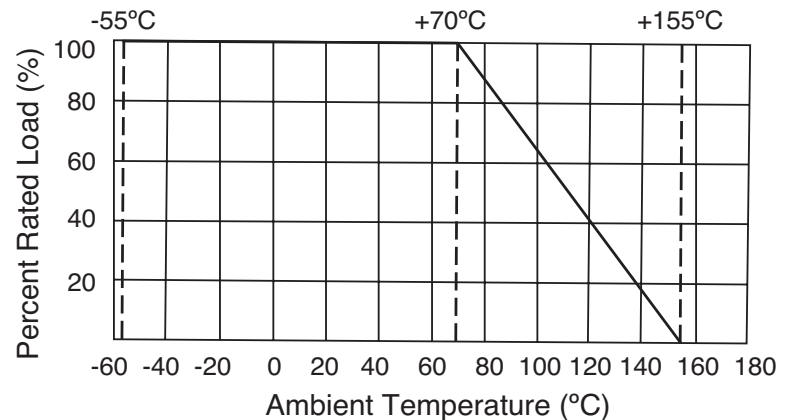


PART NUMBERING SYSTEM

2	9	2	-	T	F	R	A	4	-	1	-	1	0	0	-	R	C
Prefix				Series						Tolerance			Value			Suffix (RoHS Compliant)	

SPECIFICATIONS:	
Power Rating (Watts)	0.10W (1/10W)
Max. Working Voltage	50V
Max. Overload Voltage	100V
Dielectric Withstanding Voltage	300V
Temperature Range	-55°C ~ +155°C
Ambient Temperature	70°C

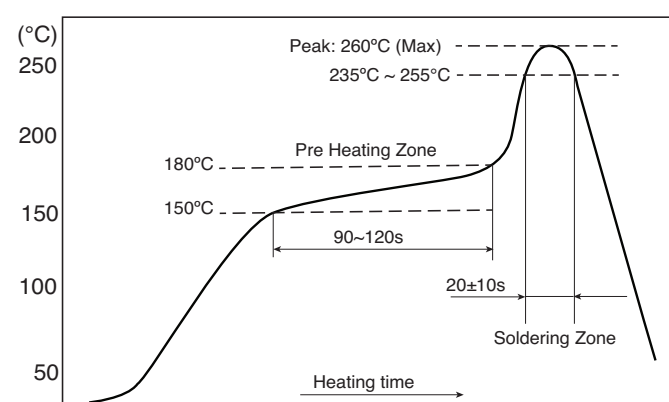
DERATING CURVE:



NOTES:

- Nominal Resistance :
Effective figures of nominal resistance shall be in accordance :
 - E-24 and E-96 series for 1%
 - E-24 series for 2% and 5%
- Resistance Range : 1Ω ~1MΩ
- RoHS Compliant

1% or 5% Thick Film Chip Resistor Arrays - Concave Terminal

Characteristics	Limits	Test Methods (JIS C 5201-1)
Temperature coefficient	Refer to item 5.	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% + 0.1Ω) Max. ± 1% (1.0% + 0.1Ω) Max.	Permanent resistance change after the application of a potential of 2.5 times RCWV for 5 seconds
Insulation resistance	1,000 MΩ or more	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	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% + 0.05Ω) Max.	Twist of Test Board : Y/X = 5/90 mm for 10 seconds
*Solderability	95 % coverage Min.	Test temperature of solder : 245±3°C Dipping them solder : 2-3 seconds (Sub-clause 4.17)
Soldering temp. reference	Electrical characteristics shall be satisfied. Without distinct deformation in appearance. (95 % coverage Min.)	<u>Wave soldering condition:</u> (2 cycles Max.) Pre-heat : 100 ~ 120 °C, 30 ± 5 sec. Suggestion solder temp. : 235~255 °C, 10 sec. (Max.) Peak temp. : 260 °C <u>Reflow soldering condition:</u> (2 cycles Max.) Pre-heat : 150 ~ 180 °C, 90 ~ 120 sec. Suggestion solder temp.: 235 ~ 255 °C, 20 ~ 40 sec. Peak temp.: 260 °C  Temperature profile for evaluation <u>Hand soldering condition:</u> The soldering iron tip temperature should be less than 300°C and maximum contact time should be 5 sec.

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