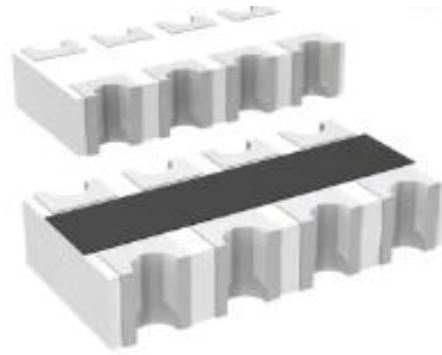


HRRACV Series

Features

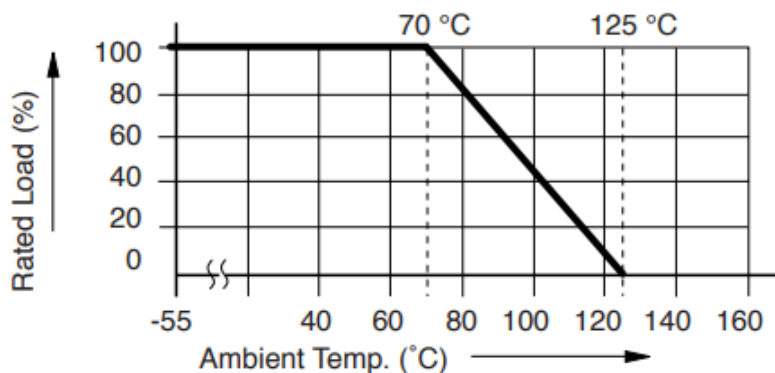
- Convex terminal style
- Four isolated resistors
- Resistance range: 10Ω to 1MΩ and zero jumper
- Resistance tolerance: 1% and 5%
- Available with Sn, Sn/Pb, or Au terminal finish
- MIL-PRF-55342 and Space Level screening available



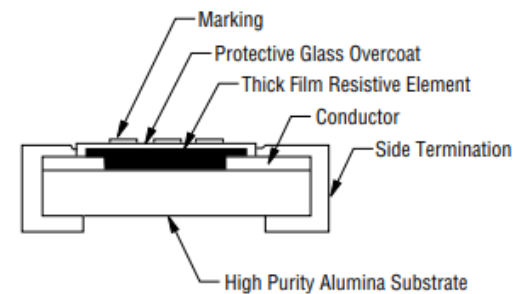
Electrical Characteristics

Characteristic	HRRACV0603-XXXJ1XX
Number of Resistors/Elements	4
Power Rating @ 70°C per Resistor	63 mW
Resistance Tolerance	1 %, 5 %
Resistor Range and & TCR (E24 + E96 for 1%, E24 for 5 %) plus zero ohm jumper	1 %, 10 ~ 1 MΩ, 200 ppm/°C 5 %, 10 ~ 1 MΩ, 200 ppm/°C
Maximum Overload Voltage	100 V
Maximum Working Voltage	50 V
Operating Temperature Range	-55 to +125 °C
Rating Temperature	+70 °C
Zero Ohm Jumper Current Rating / Max. Resistance (per resistor/element)	1 A / 2.5 A / 50 mΩ max.

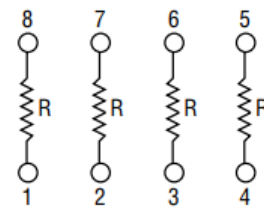
Derating Curve



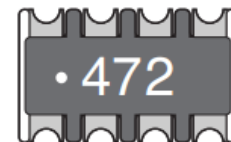
Construction



Isolated Circuit



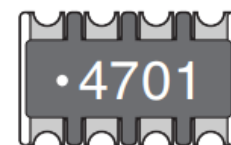
Typical Part Marking



±5 % (E24)

Three digits; first two digits are significant; third digit is number of zeros to follow.

EX: 472 = 4700 Ω = 4.7K Ω

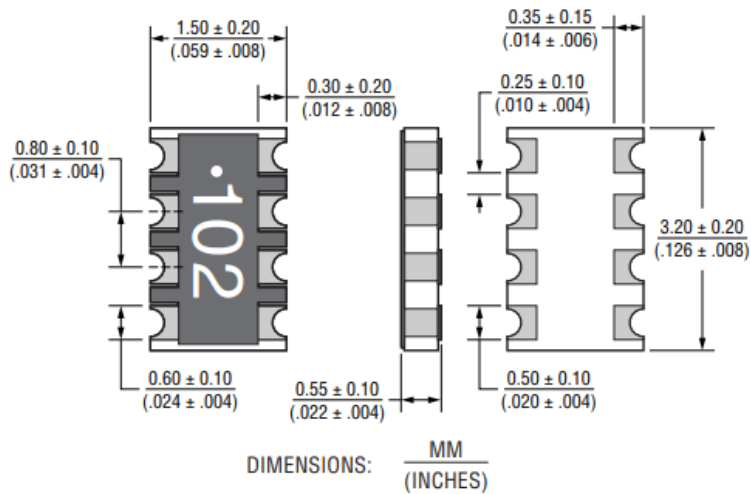


±1 % (E96)

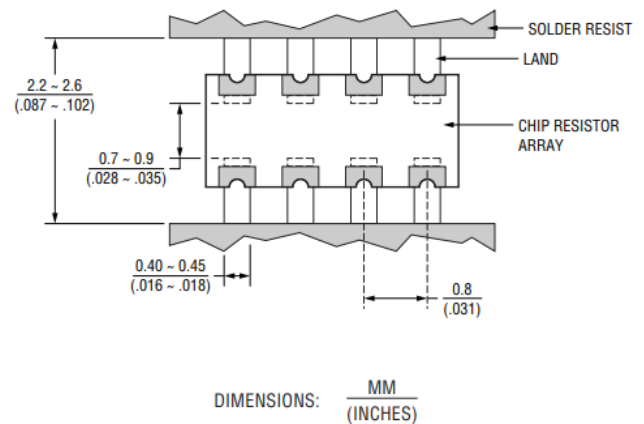
Four digits; first three digits are significant; fourth digit is number of zeros to follow.

EX: 4701 = 4700 Ω = 4.7K Ω

Product Dimensions



Recommended Pad Layout



Part Ordering Information

HRRACV 0603 – 103 J 1 PB

HRRACV = High Reliability Chip Array Concave Terminals

0603 = EIA Package Size

103 = Resistance Code

J = Resistance Tolerance (1% = F, 5% = J)

Screening Options: 1, 2, 3, 4, 5 (see screening options below)

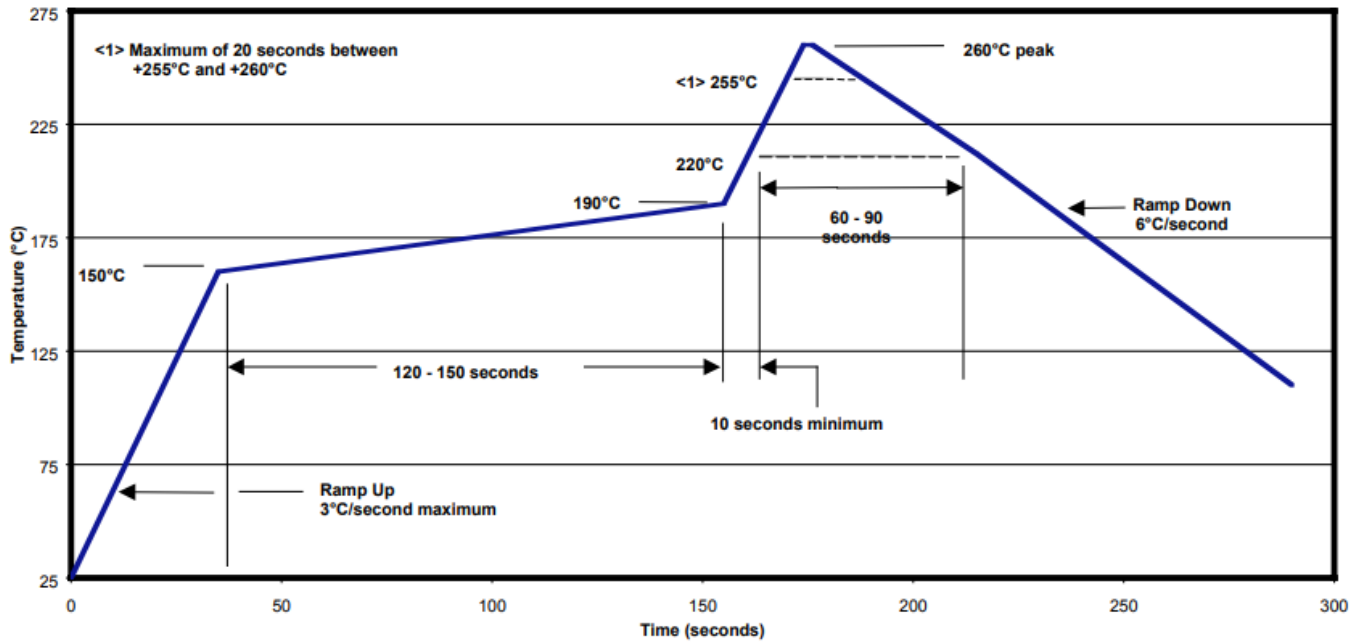
Termination Code: PB = Sn/Pb plated; Sn = Sn plated; AU – Au plated

Standard Screening Options

- Option 1: 100% visual inspection per MIL-PRF-55342, AS9102 FAIR, MIL-STD-1580 DPA.
- Option 2: 100% Group A and B Screening per MIL-PRF-55342, AS9102 FAIR, MIL-STD-1580 DPA (see AEM detail specification for more details).
- Option 3: 100% Group A, B, and C Screening per MIL-PRF-55342, AS9102 FAIR, MIL-STD-1580 DPA (see AEM detail specification for more details).
- Option 4: 100% Group A, B, and Qualification Screening per MIL-PRF-55342, AS9102 FAIR, MIL-STD-1580 DPA (see AEM detail specification for more details).
- Option 5: Customer Source Control Drawing (SCD) defined screening. AEM will customize screening based on customer requirements.



Recommended Lead-Free Soldering Profile



Recommended Sn/Pb Soldering Profile

