

THICK FILM RESISTOR NETWORKS

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THICK FILM RESISTOR NETWORK (SIP TYPE)

Thick film resistor networks have metal glaze elements on the ceramic substrates with strong clip-construction terminals, and are coated with special epoxy resin. They are originally designed, as a style of single in line package, and are the most suitable to meet the density of circuit assembling.

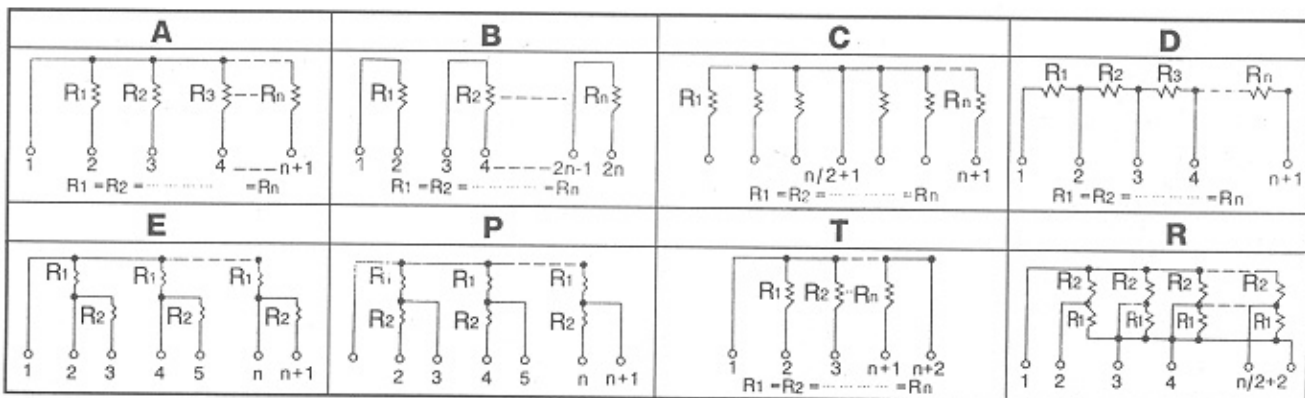
Features:

1. Small in size with high precision package. It is suitably used in printed circuit board.
2. Automated machinery mass production and competitive prices accordingly.
3. Extremely high stability, accuracy and reliability.

General Specification

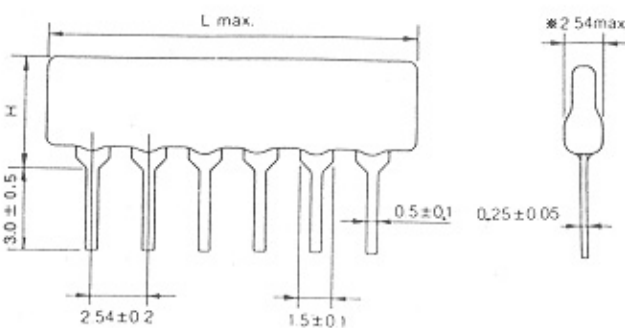
| | | | | | | | | |
|-----------------------------------|-----------|---------------------|--------|----------------------|--------|------------------------------|--------|--------------|
| Operating Temp. Range | | - 55°C ~ + 125°C | | Wattage/Element | | RA | | RB |
| T.C.R. | ± 100 PPM | 50 ohm ~ 2.2M ohm | | | | B Circuits | Others | All Circuits |
| | ± 250 PPM | <50 ohm or 2.2M ohm | | 0.2W | 0.125W | 0.25W | | |
| Rating Ambient Temp. | | + 70°C | | Max. Working Voltage | | 100V | | 200V |
| Resistance Range (E-12 Series) | | R Circuit | Others | Resistance Tolerance | | F = ± 1%, G = ± 2%, J = ± 5% | | |
| | | 100 Ω -10K | | | | | | |

Internal Circuit



DIMENSIONS (STANDARD TYPE)

DUAL TERMINATORS (R1/R2) (OHM)



160/240

330/390

180/390

330/470

220/270

1.5K/3.3K

220/330

3.0K/6.2K

L

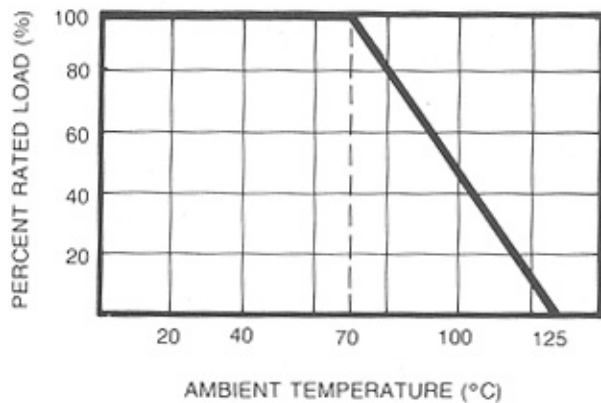
H MAX

| NO: PS | | | | | | | | | | | RA | RB |
|---------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 5.08 | 7.5 |
| 10.2 MM | 12.7 | 15.3 | 17.8 | 20.4 | 22.1 | 25.4 | 28.0 | 30.5 | 33.1 | 35.6 | | |

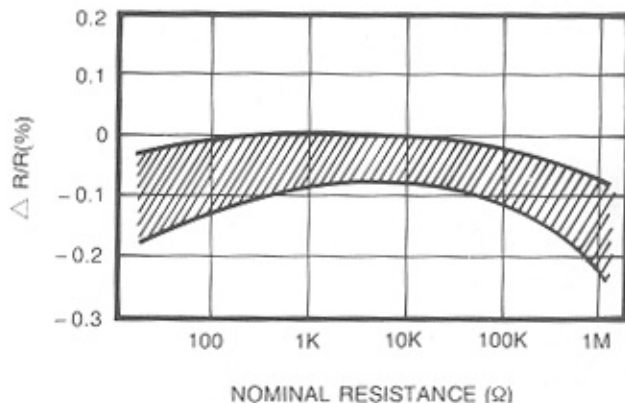
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DERATING CURVE

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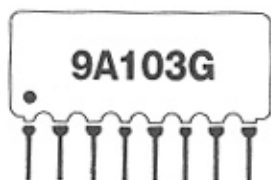
SHORT TIME OVERLOAD



Characteristic Performance

| Test Items | Specification |
|--|---|
| Insulation Resistance (200Vdc Applied) | 10 ⁴ M Ω or Greater |
| Thermal Shock (- 55°C to + 125°C, 5 Cycles) | Δ R/R: ± (0.5% + 0.1 Ω) |
| Short Time Overload (2.5 × Rated Voltage, 5 Sec.) | Δ R/R: ± (0.5% + 0.1 Ω) |
| Resistance to Soldering Heat (+ 260°C ± 5°C, 10 Sec.) | Δ R/R: ± (0.5% + 0.1 Ω) |
| Heat Shock (+ 25°C to + 125°C, 5 Cycles) | Δ R/R: ± (0.5% + 0.1 Ω) |
| Moisture Resistance, Constant State (40 °C, 95% R.H., 1,000Hrs.) | Δ R/R: ± (1% + 0.1 Ω) |
| High Temperature Exposure (125 °C, 100Hrs.) | Δ R/R: ± (1% + 0.1 Ω) |
| Moisture Load Life (1,000Hrs., 40 °C, 95% R.H.; - Rated Voltage Cycling) | Δ R/R: ± (3% + 0.1 Ω) |
| Load Life (1,000Hrs., Rated Voltage Cycling at 70 °C) | Δ R/R: ± (3% + 0.1 Ω) |
| Load Pull Strength (1kg, 10 Sec.) | Δ R/R: ± (0.5% + 0.1 Ω) |
| Temperature Coefficient (- 55°C to 125°C) | ± 100ppm/°C ± 250ppm/°C for <50 Ω or >2.2M Ω |
| Solderability (230 °C for 5 Sec.) | 95% min. coverage |
| Note: Test methods and conditions are in accordance with MIL-R-83401 | |

Marking



- 1 st Letter : Number of Pins
- 2 nd Letter : Type of Circuit
- 3 rd, 4th &
- 5 th Letters : Resistance Value
- 6 th Letter : Tolerance
- Dot : The First Pin

Part Number System

