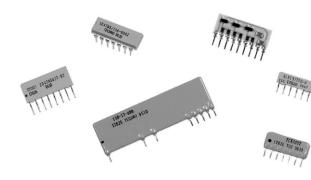


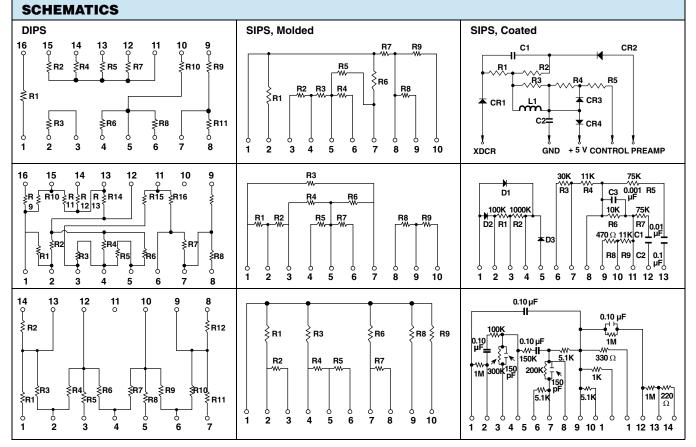
Custom Thick Film Resistor Networks, Single-In-Line (Molded or Conformal Coated SIPs) and Dual-In-Line (Molded DIPs)



SHA

FEATURES

- Custom resistor, capacitor, diode and inductor network combinations
- R, C, L, D multicomponent networks
- Processed to MIL-PRF-83401
- Fast turnaround time
- Unlimited schematics possible
- Design through production
- High temperature solder joints
- Wide resistance range
- Ultra high precision laser trimming
- Double sided printing and through holes/VIAs
- High density circuit designs
- Tighter parameters available
- High power ratings available



ELECTRICAL SPECIFICATIONS

Resistance Range: 1 Ω to 50 M Ω

Tolerance: ± 0.5 % available

Temperature Coefficient: ± 100 ppm/°C available TCR Tracking: ± 50 ppm/°C available Ratio Matching: ± 0.5 % available Power Rating (Element): 1/8 W at + 70 °C typical

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits: - 65 °C to + 125 °C

MECHANICAL SPECIFICATIONS

Resistive Element: Thick film

Solder Joints: High temperature Sn10

Encapsulation: Thermoset epoxy for molded. Epoxy for conformal coated

Lead Lengths: 0.060" (1.52 mm) to 0.190" (4.83 mm) molded, 0.060" (1.52 mm) to 0.290" (7.37 mm) coated

Substrates: 96 % alumina, Thicknesses: 0.020" (0.508 mm) to 0.040" (1.016 mm)

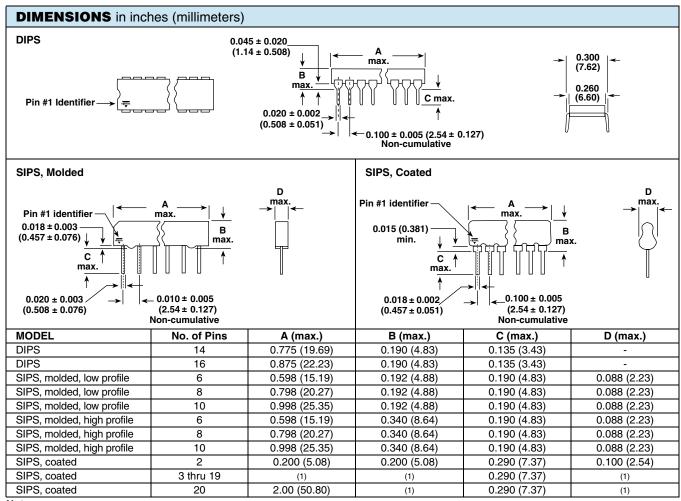
Resistor Coatings: Glass passivation, dielectrics for crossovers

Custom Networks

Vishay Techno

VISHAY

Custom Thick Film Resistor Networks, Single-In-Line (Molded or Conformal Coated SIPs) and Dual-In-Line (Molded DIPs)



Note

⁽¹⁾ Depending on customer requirements

ENVIRONMENTAL PERFORMANCE		
TEST ⁽²⁾		Maximum ∆R (TYPICAL TEST LOTS)
Power Conditioning	(108)	Δ <i>R</i> < 0.10 %
Thermal Shock	(107)	Δ <i>R</i> < 0.10 %
Thermal Shock Group C	(107)	Δ <i>R</i> < 0.10 %
Short Time Overload		$\Delta R < 0.03 \%$
Low Temperature Storage		Δ <i>R</i> < 0.02 %
Low Temperature Operation		Δ <i>R</i> < 0.02 %
Low Temperature Exposure		∆ <i>R</i> < 0.06 %
Moisture Resistance	(106)	∆ <i>R</i> < 0.10 %
Resistance to Soldering Heat	(210)	Δ <i>R</i> < 0.10 %
Shock	(213)	Δ <i>R</i> < 0.04 %
Vibration	(204)	Δ <i>R</i> < 0.04 %
Load life	(108)	Δ <i>R</i> < 0.22 %

Note

⁽²⁾ Numbers in parentheses refer to test method MIL-STD-202 as modified by the detail specification

ORDERING INFORMATION

• For custom product information contact factory



Vishay

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