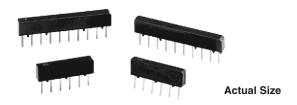




Molded, Commercial, Single In-Line Thin Film Resistor, **Through Hole Network (Standard)**



Designed to meet MIL-PRF-83401 characteristic "V" and "H"

These resistor networks are available in 6 pins, 8 pins and 10 pins styles in both standard and custom circuits. They incorporate Vishay Dale Thin Film's patented passivated nichrome film to give superior performance on temperature coefficient of resistance, thermal stability, noise, voltage coefficient, power handling and resistance stability. The leads are attached to the metallized alumina substrates by Thermo-Compression bonding. The body is molded thermoset plastic with gold plated copper alloy leads. This product will outperform all of the requirements of characteristic "V" and "H" of MIL-PRF-83401.

FEATURES

- · Lead (Pb)-free gold plated terminals standard
- Gold to gold terminations (no internal solder)



HALOGEN

FREE

Ν

- · Exceptional ratio stability over time and temperature ($\Delta R \pm 0.015 \% 2000 \text{ h at } 70 \text{ °C}$)
- Rugged low profile molded case 6 pins, 8 pins,
- and 10 pins available
- · Compatible with automatic insertion equipment
- Material categorization: For definitions of compliance please see www.vishav.com/doc?99912

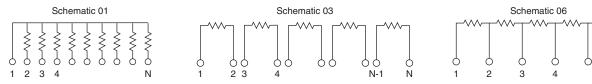
Note

This datasheet provides information about parts that are RoHS-compliant and/or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information/tables in this datasheet for details.

TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING
TCR	25	2
	ABSOLUTE	RATIO
TOL.	0.1	0.05

SCHEMATIC

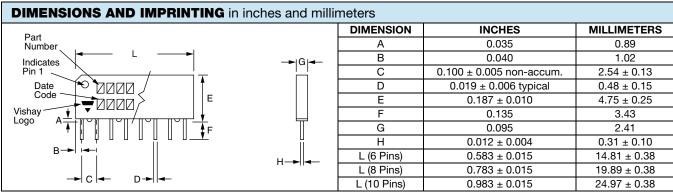


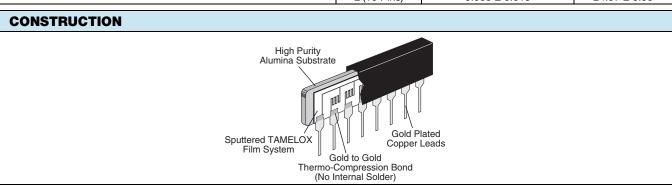
STANDARD ELECTRICAL SPECIFICATIONS		
TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome	-
Pin/Lead Number	6, 8, 10	-
Resistance Range	100 Ω to 200 k Ω per resistor	-
TCR: Absolute	± 25 ppm/°C (standard)	- 55 °C to + 125 °C
TCR: Tracking	± 2 ppm/°C (typical less 1 ppm/°C equal values) (1)	- 55 °C to + 125 °C
Tolerance: Absolute	± 0.1 % to ± 1.0 %	+ 25 °C
Tolerance: Ratio	± 0.05 % to ± 0.1 % to R ₁	+ 25 °C
Power Rating: Resistor	0.100 W (per element typical at + 25 °C)	Maximum at + 70 °C
Power Rating: Package	0.500 W	Maximum at + 70 °C
Stability: Absolute	ΔR ± 0.05 %	2000 h at + 70 °C
Stability: Ratio	ΔR ± 0.015 %	2000 h at + 70 °C
Voltage Coefficient	< 0.1 ppm/V	-
Working Voltage	100 V	-
Operating Temperature Range	- 55 °C to + 125 °C	-
Storage Temperature Range	- 55 °C to + 125 °C	-
Noise	< - 30 dB	-
Thermal EMF	< 0.08 μV/°C	-
Shelf Life Stability: Absolute	ΔR ± 0.01 %	1 year at + 25 °C
Shelf Life Stability: Ratio	ΔR ± 0.002 %	1 year at + 25 °C

(1) Consult factory for TCR tracking specifications 01 schematic

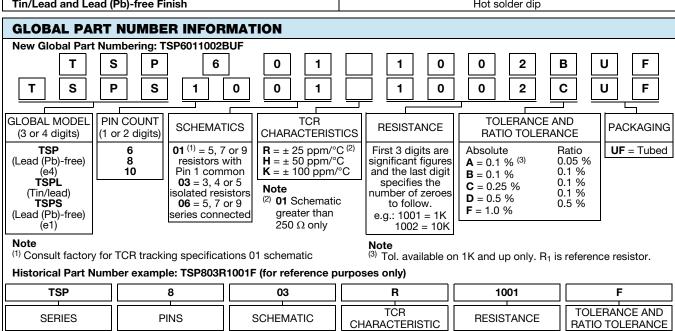


Vishay Dale Thin Film

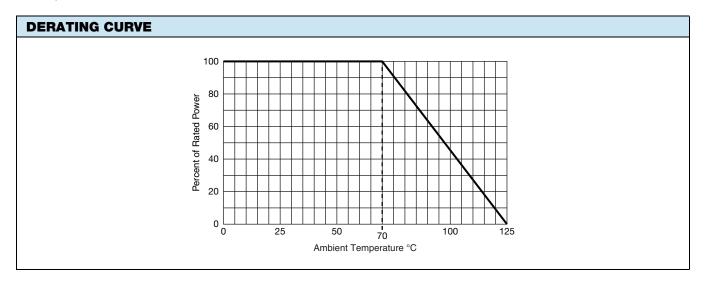




MECHANICAL SPECIFICATIONS		
Resistive Element	Passivated nichrome or tantalum nitride	
Substrate Material	Alumina	
Body Molded	Ероху	
Terminals	Copper alloy	
Plating	Nickel/gold	
Model TSP - Lead (Pb)-free Standard	Gold plated	
Model TSPS - Lead (Pb)-free Solder Coated Option	Sn96.5, Ag3.0, Cu0.5	
Model TSPL - Tin/Lead Solder Coated Option	Sn63	
Tin/Lead and Lead (Pb)-free Finish	Hot solder dip	



Vishay Dale Thin Film





Legal Disclaimer Notice

Vishay

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