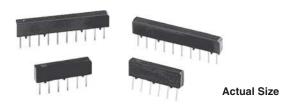




Molded, Commercial, Single In-Line Thin Film Resistor, Through Hole Network (Standard)

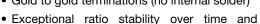


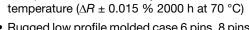
Designed to meet MIL-PRF-83401 characteristic "V" and "H"

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)







- 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 <u>www.vishay.com/doc?99912</u>

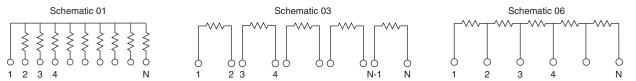
Note

* Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

TYPICAL PERFORMANCE

	ABSOLUTE TRACKING	
TCR	25	2
	ABSOLUTE	RATIO
TOL.	0.1	0.05

SCHEMATIC



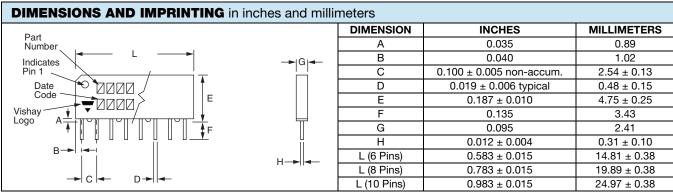
STANDARD ELECTRICAL SPECIFICATIONS		
TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome	-
Pin/Lead Number	6, 8, 10	-
Resistance Range	100 Ω to 200 k Ω per resistor	-
TCR: Absolute	± 25 ppm/°C (standard)	- 55 °C to + 125 °C
TCR: Tracking	± 2 ppm/°C (typical less 1 ppm/°C equal values) (1)	- 55 °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	pility: Ratio $\Delta R \pm 0.002 \%$	

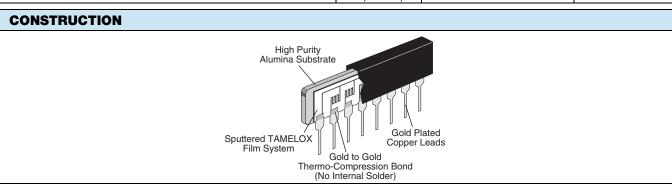
Note

(1) Consult factory for TCR tracking specifications 01 schematic

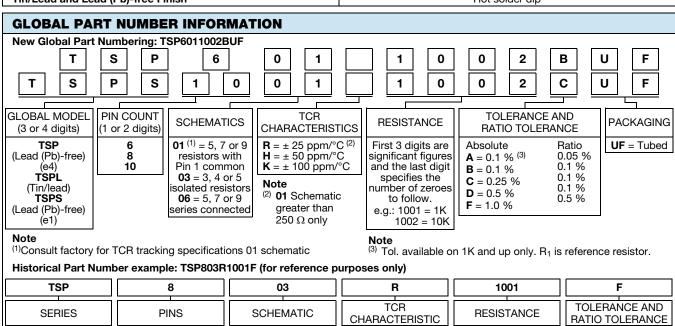


Vishay Dale Thin Film





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	





Legal Disclaimer Notice

Vishay

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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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