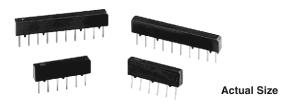
Vishay Dale Thin Film

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)
- · Exceptional ratio stability over time and temperature ($\Delta R \pm 0.015 \% 2000 \text{ h at } 70 \degree \text{C}$)
- 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.vishay.com/doc?99912

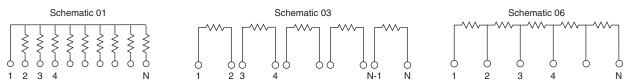
Note

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



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	\pm 0.05 % to \pm 0.1 % to R1	+ 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	$\Delta R \pm 0.05 \%$	2000 h at + 70 °C	
Stability: Ratio	∆ <i>R</i> ± 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	Femperature Range - 55 °C to + 125 °C		
Noise	< - 30 dB	-	
Thermal EMF	< 0.08 µV/°C	-	
Shelf Life Stability: Absolute	$\Delta R \pm 0.01 \%$	1 year at + 25 °C	
Shelf Life Stability: Ratio	$\Delta R \pm 0.002 \%$	02 % 1 year at + 25 °C	

Note

(1) Consult factory for TCR tracking specifications 01 schematic

Revision: 21-Oct-13

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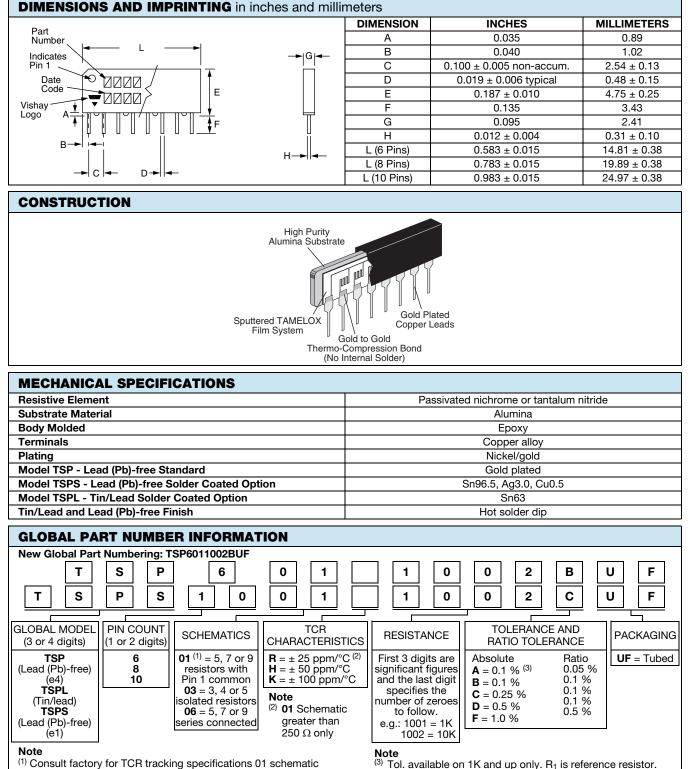


HALOGEN

FREE







Historical Part Number example: TSP803R1001F (for reference purposes only)

www.vishay.com

TSP	8	03	R	1001	F			
SERIES	PINS	SCHEMATIC	TCR CHARACTERISTIC	RESISTANCE	TOLERANCE AND RATIO TOLERANCE			

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Document Number: 60037

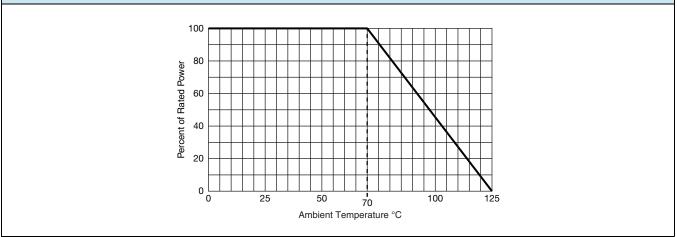
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Vishay Dale Thin Film

DERATING CURVE



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