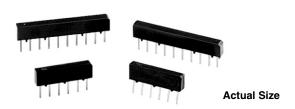


RoHS

COMPLIANT

Molded, Commercial, Single In-Line Resistor Network (Standard)



Designed To Meet MIL-PRF-83401 Characteristic "V" and "H"

These resistor networks are available in 6, 8 and 10 pin styles in both standard and custom circuits. They incorporate VISHAY 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.

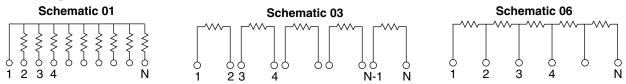
FEATURES

- Lead (Pb)-free available
- Rugged molded case 6, 8, 10 pins
- Thin Film element
- Excellent TCR characteristics (± 25 ppm/°C)
- Gold to gold terminations (no internal solder)
- Exceptional stability over time and temperature (500 ppm at + 70 °C at 2000 h)
- · Internally passivated elements
- · Compatible with automatic insertion equipment
- · Standard circuit designs
- Isolated/Bussed circuits

TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	25	2
	ABS	RATIO
TOL	0.1	0.05

SCHEMATIC



TEST		SPECIFICATIONS	CONDITIONS
Material		Passivated nichrome	
Resistance Rang	е	100 Ω to 200 kΩ	
TCR:	Tracking	± 2 ppm/°C (typical less 1 ppm/°C equal values)	- 55 °C to + 125 °C
	Absolute	± 25 ppm/°C standard	- 55 °C to + 125 °C
Tolerance:	Ratio	± 0.05 % to ± 0.1 % to R1	+ 25 °C
	Absolute	± 0.1 % to ± 1.0 %	+ 25 °C
Power Rating:	Resistor	100 mW per element typical at + 25 °C	Max. at + 70 °C
	Package	0.5 W	Max. at + 70 °C
Stability:	∆R Absolute	500 ppm	2000 h at + 70 °C
	∆R Ratio	150 ppm	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 Ratio		< 100 ppm	1 year at + 25 °C
		20 ppm	1 year at + 25 °C

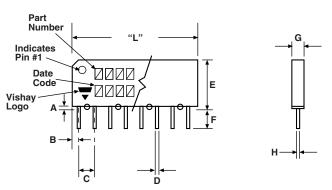
^{*} Pb containing terminations are not RoHS compliant, exemptions may apply



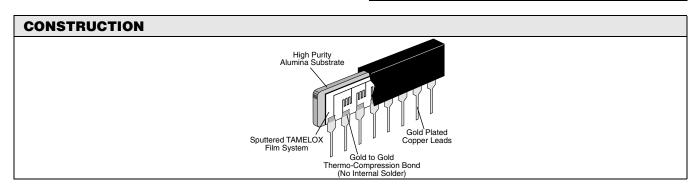
Molded, Commercial, Single In-Line Resistor Network (Standard)

Vishay Thin Film

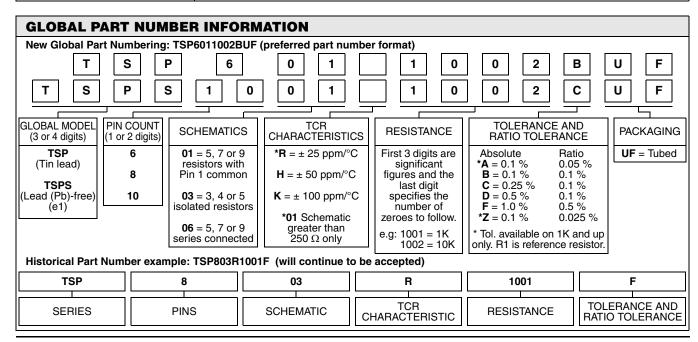
DIMENSIONS AND IMPRINTING in inches and millimeters



"L" DIMENSION		INCHES	3		MM	
Α		0.035			0.89	
В		0.040			1.02	
С	o.	0.100 ± 0.005 non-accum.			2.54 ± 0.13	
D		0.019 ± 0.006 typical			0.48 ± 0.15	
E		0.187 ± 0.010			4.75 ± 0.25	
F		0.135			3.43	
G	0.095			2.41		
Н	0.012 ± 0.004			0.31 ± 0.10		
NUMBER OF PINS		6	8		10	
"L" Dimensions		0.583 ± 0.015	0.783 ± 0.015		0.983 ± 0.015	
(mm)		(14.81 ± 0.38)	(19.89 ± 0.38)		(24.97 ± 0.38)	



MECHANICAL SPECIFICATIONS				
Resistive Element	Passivated nichrome			
Substrate Material	Alumina			
Body Molded Epoxy	Terminals vopper alloy			
Plating	Nickel/gold			
Marking Resistance to Solvents	Per MIL-PRF-83401			
Lead (Pb)-free Option	96.5 % Sn, 3.0 % Ag, 0.5 % Cu			
Lead (Pb)-free Finish	Hot solder dip			





Vishay

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