Vishay Thin Film



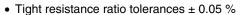
Surface Mount Network



Vishay Thin Film MP Series Dividers provide \pm 2 ppm/°C tracking and a ratio tolerance as tight as \pm 0.05 %, ultra small size, 3 or 4 lead package and exceptional stability for all surface mount applications. The standard SC70 package format with common standard resistance values provide easy selection for most applications requiring matched pair resistor elements. If you require a non-standard ratio, consult the applications engineering group as we may be able to meet your requirements with a custom design.

FEATURES

- Lead (Pb)-free available
- Small physical size SC70 format





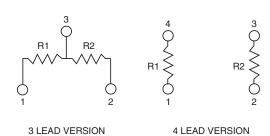


- Low TCR tracking ± 2 ppm
- Excellent long term stability (500 ppm at 70 °C for 2000 h)
- · Center-tapped or isolated matched pair resistors

TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	25	2
	ABS	RATIO
TOL	0.1	0.05

SCHEMATIC

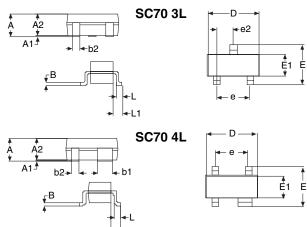


STANDARD RESISTANCE VALUES				
TYPE	STANDARD VALUES			
	R1 (Ω)	R2 (Ω)		
MP3	1K	1K		
	10K	10K		
MP4	1K	1K		
	10K	10K		

SIANDARD	ELECTRICAL SP	ECIFICA I IUNS	
TEST		SPECIFICATIONS	CONDITIONS
Material		Passivated Nichrome	
Resistance Range	е	100 Ω to 50 k Ω	
TCR		± 25 ppm/°C	- 55 °C to + 125 °C
Tolerance:	Absolute	± 0.10 %, ± 0.50 %, ± 1.0 %	+ 25 °C
	Ratio	± 0.05 % (standard), ± 1.0 %	
Power Rating:	Resistor	0.075 W	Max. at + 70 °C
	Package	0.150 W	Max. at + 70 °C
Stability		500 ppm	2000 h at + 70 °C
Voltage Coefficier	nt	0.1 ppm/V	
Working Voltage		50 V	
Operating Tempe	rature Range	- 55 °C to + 125 °C	
Noise		< - 30 dB	
Thermal EMF		0.1 μV/°C	
Shelf Life Stabilit	y: Absolute	< 100 ppm	1 year at + 25 °C

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

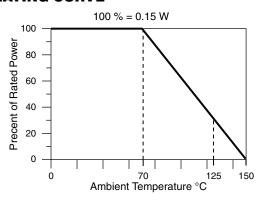
DIMENSIONS AND IMPRINTING in millimeters

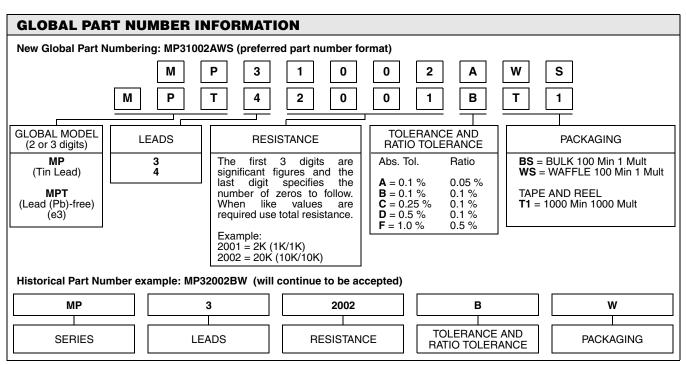


DIMENSION	MIN.	MAX.
Α	0.800	1.100
A1	0.000	0.100
A2	0.800	1.000
В	0.100	0.018
b1	0.400	0.500
b2	0.200	0.250
D	1.800	2.200
E	1.800	2.400
E1	1.150	1.350
е	1.300	-
e2	0.650	-
L	0.100	0.030

MECHANICAL SPECIFICATIONS				
Resistive Element	Passivated Nichrome			
Substrate Material	Silicon			
Body	Ероху			
Terminals	Copper with Nickel barrier			
Plating	SN 60			
Marking Resistance to Solvents	Per MIL-PRF-914			
Lead (Pb)-free Option	100 % Sn Matte			
Lead (Pb)-free Finish	Plated			

DERATING CURVE







Vishay

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