

CNS 471

Vishay Thin Film



Decade Divider, Single-In-Line Thin Film Resistor Networks (Standard)



Actual Size

Using these integrated thin film networks instead of discrete resistor sets, designers gain several advantages: smaller size, better overall tracking, greater reliability, and lower cost.

FEATURES

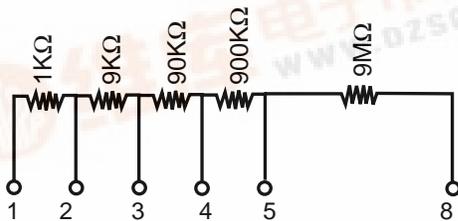
- Low Voltage Coefficient
- Low Noise Index
- High Stability
- Standard

TYPICAL PERFORMANCE

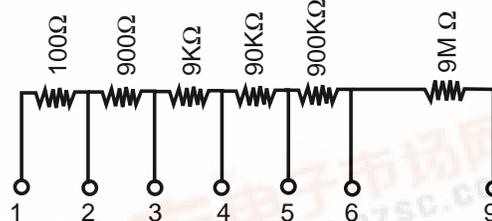
	ABS	TRACKING
TCR	<25	<2.5
TOL	0.1	0.03

SCHEMATIC

5 Decades



6 Decades



STANDARD ELECTRICAL SPECIFICATIONS

TEST	SPECIFICATIONS			CONDITIONS
MATERIAL	PASSIVATED NICHROME			
Resistance Range	100Ω to 10MΩ			
TCR:	Tracking	< 2.5ppm/°C		Except for 100R (5ppm/°C)
	Absolute	< 25ppm/°C		(- 40°C to + 125°C)
Tolerance:	Ratio	A = ± 0.05%	B = ± 0.1%	Q = ± 0.03%
	Absolute	± 0.1 %		
Power Rating:	Resistor	0.1 Watt		
	Package	0.6 Watt		
Stability:	ΔR Ratio	0.01 %		1000 hrs. @ + 70°C
Voltage Coefficient	< 0.002ppm/Volt			
Working Voltage	1200 Volts			
Operating Temperature Range	- 55°C to + 125°C			
Storage Temperature Range	- 55°C to + 155°C			
Noise	< - 30dB Typical			
Thermal EMF	0.1μV/°C			
Shelf Life Stability	50ppm			1 year

THROUGH HOLE

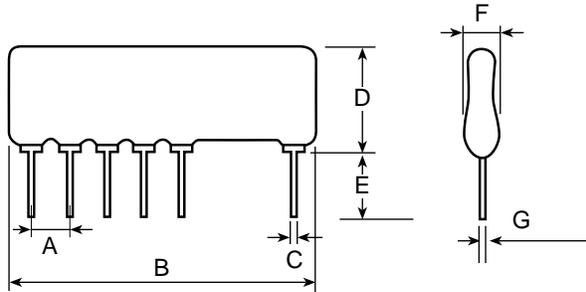


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Thin Film Resistor Networks (Standard)

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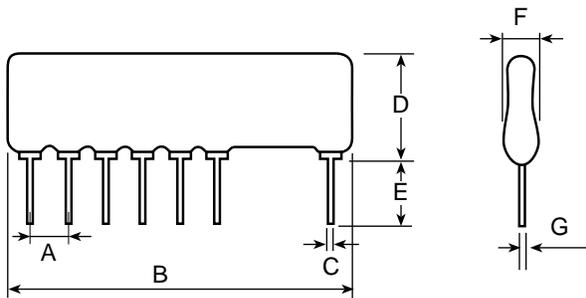
DIMENSIONS in inches and millimeters

5 Decades



DIMENSION	INCHES	MILLIMETERS
A	0.100	2.54
B	0.830	21.08
C	0.020	0.51
D	0.275	7 Max.
E	0.125	3.17
F	0.100	2.54 Max.
G	0.010	0.25

6 Decades



DIMENSION	INCHES	MILLIMETERS
A	0.100	2.54
B	0.925	23.50
C	0.020	0.51
D	0.275	7 Max.
E	0.125	3.17 Min.
F	0.100	2.54
G	0.010	0.25

THROUGH HOLE

MECHANICAL SPECIFICATIONS

Resistive Material	Nichrome
Body	Conformally coated alumina
Terminals	Copper
Substrate Material	Alumina
Lead Coplanarity	NA
Marking Resistance to Solvents	Laser Marking

How to Order

Series	Model	Tolerance	Number of Decades
CNS	471	Q	5
		Absolute	5
		Ratio	6
		0.1	
		0.1	
		0.1	
		B	
		A	
		Q	