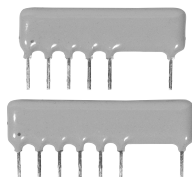


Decade Divider, Single-In-Line Thin Film Resistor Networks (Standard)

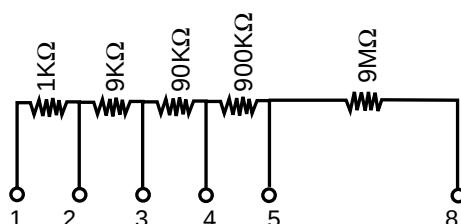


Actual Size

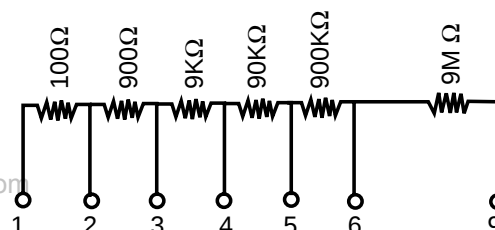
Using these integrated thin film networks instead of discrete resistor sets, designers gain several advantages: smaller size, better overall tracking, greater reliability, and lower cost.

SCHEMATIC

5 Decades



6 Decades



FEATURES

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

TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	<25	<2.5
	ABS	RATIO
TOL	0.1	0.03

THROUGH HOLE

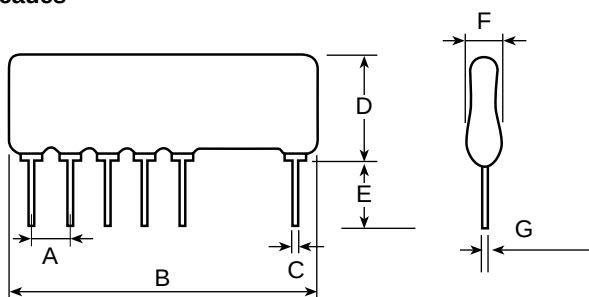
STANDARD ELECTRICAL SPECIFICATIONS

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

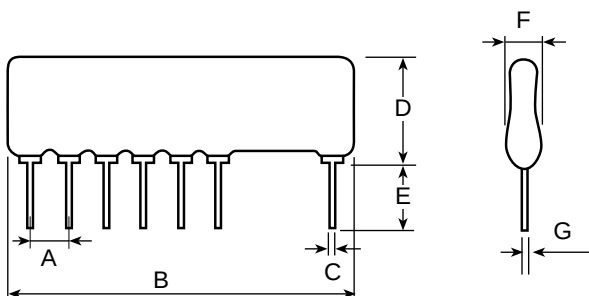


Decade Divider, Single-In-Line Thin Film Resistor Networks (Standard)

Vishay Thin Film

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 0.1 0.1 0.1	5 6
		Ratio 0.1 0.05 0.03	
		B A Q	

VISHAY THIN FILM • FRANCE +33.4.93.37.28.24 FAX: +33.4.93.37.27.31 • GERMANY +49.9287.710 FAX: +49 9287.70435 • ISRAEL +972.3.557.0945 FAX: +972.3.558.9121
 • ITALY + 39.2.300.11919 FAX: +39.2.300.11999 • JAPAN +81.42.729.0661 FAX: +81.42.729.3400 • SINGAPORE +65.788.6668 FAX: +65.788.0988
 • SWEDEN +46.8.594.70590 FAX: +46.8.594.70581 • UK +44 191 514 8237 FAX: +44 1953 457 722 • USA: (610) 407-4800 FAX: (610) 640-9081