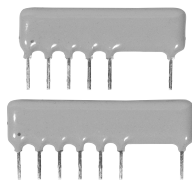


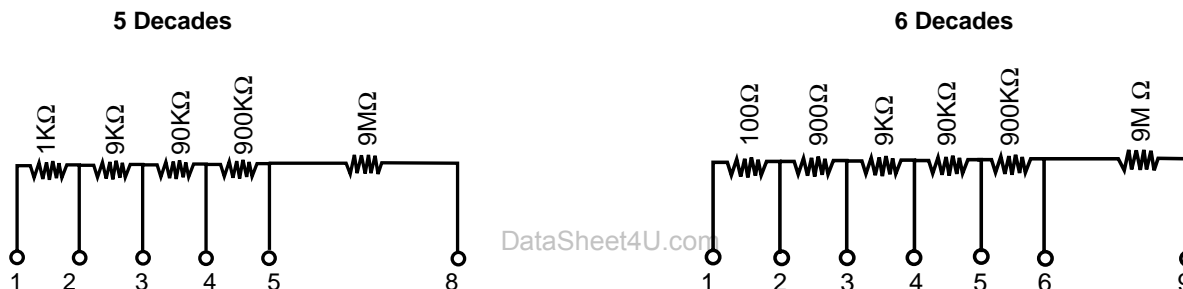
## Decade Divider, Single-In-Line Thin Film Resistor Networks (Standard)



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



### 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

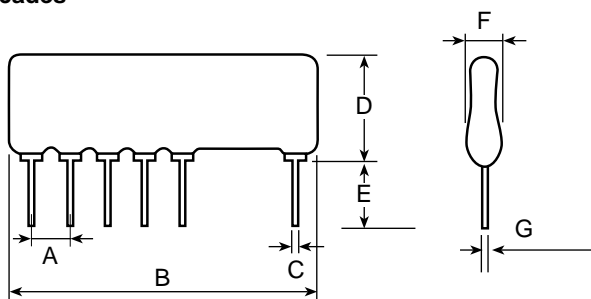
### STANDARD ELECTRICAL SPECIFICATIONS

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

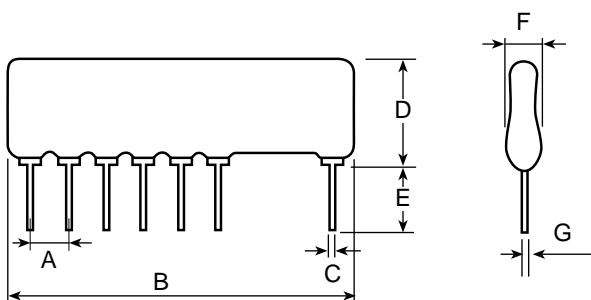


Decade Divider, Single-In-Line  
Thin Film Resistor Networks (Standard)

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

<b>MECHANICAL SPECIFICATIONS</b>	
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
<b>CNS</b>	<b>471</b>	<b>Q</b>	<b>5</b>
		Absolute	<b>5</b>
		Ratio	<b>6</b>
		0.1 0.1 <b>B</b>	
		0.1 0.05 <b>A</b>	
		0.1 0.03 <b>Q</b>	

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