Vishay Sfernice



<u>GREEN</u> (5-2008)**

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



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

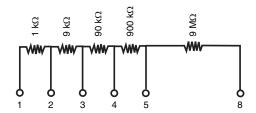
- Tight TCR tracking down to 2.5 ppm
- Low voltage coefficient < 0.02 ppm/V
- Low noise index < 30 dB
- 5 decades: 1 k Ω to 9 M Ω
- High stability 0.01 % on ratio (1000 h at Pn at + 70 °C)
- 6 decades: 100 Ω to 9 M Ω
- Standard
- 5 decades and 6 decades voltage divider
- Compliant to RoHS directive 2002/95/0EC



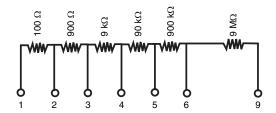
	ABS	TRACKING
TCR	< 25 ppm/°C	< 2.5 ppm/°C
	ABS	RATIO
TOL.	0.1 %	0.03 %

SCHEMATIC

5 Decades



6 Decades



TEST		SPECIFICATIONS	CONDITIONS
MATERIAL		PASSIVATED NICHROME	
Resistance range	•	100 Ω to 10 M Ω	
TCR	Tracking	< 2.5 ppm/°C	Except for 100R (5 ppm/°C)
	Absolute	< 25 ppm/°C	(0 °C to + 70 °C)
Toleracne	Ratio	A = ± 0.05 %, B = ± 0.1 %, C = ± 0.03 %	
	Absolute	± 0.1 %	(0 °C to + 70 °C)
Power rating	Resistor	0.1 W	
	Package	0.6 W	(0 °C to + 70 °C)
Stability	∆R ratio	0.01 % typical	1000 h at + 70 °C at Pn
Voltage coefficier	nt	< 0.02 ppm/V	
Working voltage		1200 V	
Operating tempe	rature range	0 °C; + 70 °C	
Storage temperat	ture range	- 55 °C to + 155 °C	
Noise		< - 30 dB typical	
Thermal EMF		0.1 μV/°C	
Shelf life stability (ratio)		50 ppm	1 year

^{**} Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

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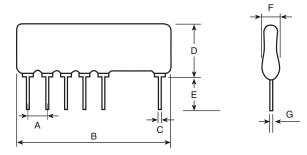


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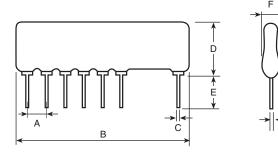
DIMENSIONS





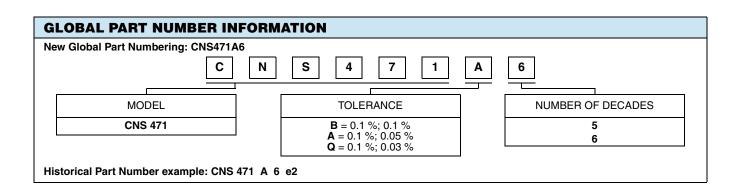
DIMENSION	INCHES	MILLIMETERS
Α	0.100	2.54
В	0.830	21.08
С	0.020	0.51
D	0.275	7 max.
E	0.125	3.17
F	0.100	2.54 max.
G	0.010	0.25

6 Decades



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А	0.100	2.54
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MECHANICAL SPECIFICATIONS		
Resistive material	Nichrome	
Coating	Fluidized epoxy	
Terminals	Tin/silver on copper alloy	
Substrate material	Alumina	
Marking resistance to solvents	Laser marking	





Vishay

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