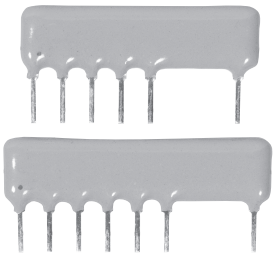
Decade Divider, Single-In-Line
Thin Film Resistor Networks (Standard)



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

- Low voltage coefficient < 0.02 ppm/V
- Low noise index < - 30 dB
- High stability 0.01 % on ratio (1000 h at Pn at + 70 °C)
- Standard

Pb-free

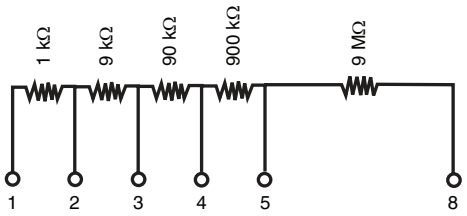
RoHS COMPLIANT

TYPICAL PERFORMANCE

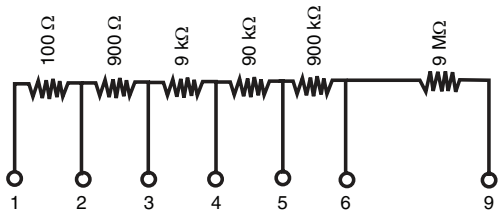
	ABS	TRACKING
TCR	< 25 ppm/°C	< 2.5 ppm/°C
	ABS	**RATIO**
TOL.	0.1 %	0.03 %

SCHEMATIC

5 Decades



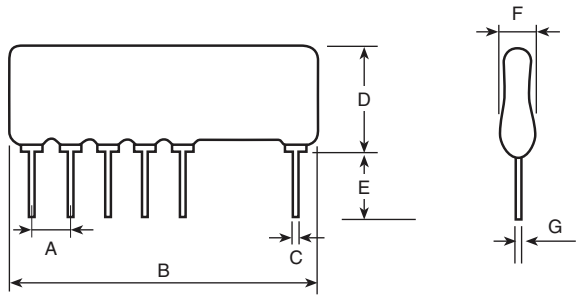
6 Decades



STANDARD ELECTRICAL SPECIFICATIONS			
TEST		**SPECIFICATIONS**	**CONDITIONS**
MATERIAL		**PASSIVATED NICHROME**	
Resistance range		100 Ω to 10 MΩ	
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	**ΔR Ratio**	0.01 % typical	1000 h at + 70 °C at Pn
Voltage coefficient		< 0.02 ppm/V	
Working voltage		1200 V	
Operating temperature range		0 °C; + 70 °C	
Storage temperature range		- 55 °C to + 155 °C	
Noise		< - 30 dB typical	
Thermal EMF		0.1 µV/°C	
Shelf life stability (Ratio)		50 ppm	1 year

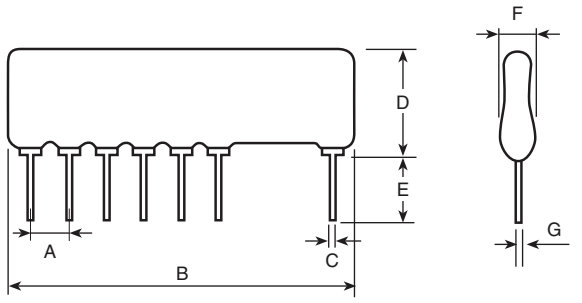
DIMENSIONS

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	0.830	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

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

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: CNS471A6

C	N	S	4	7	1	A	6
MODEL						TOLERANCE	NUMBER OF DECADES

TOLERANCE
B: 0.1 %; 0.1 %
A: 0.1 %; 0.05 %
Q: 0.1 %; 0.03 %

NUMBER OF DECADES
5
6

Historical Part Number example: CNS 471 A 6 e2

Disclaimer

All product specifications and data are subject to change without notice.

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