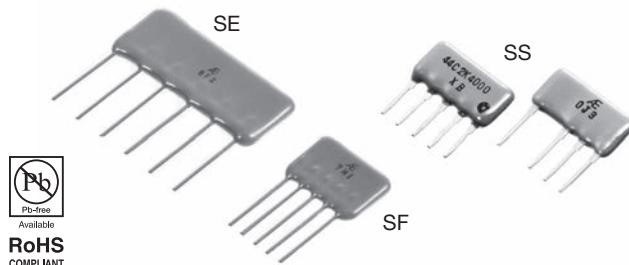


Precision Resistor Network (Conformally Coated)



COMPOSITION OF TYPE NUMBER

Example:

SE 004A 1K000 /8K000 B A

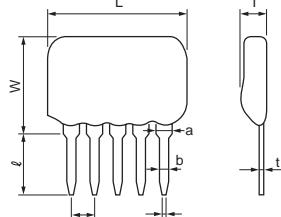
 ① Type
 ② Circuit Symbol
 ③ Resistance Value (R1)

 ④ Resistance Value (Rn)
 ⑤ Resistance Tolerance (Absolute)
 ⑥ Resistance Tolerance (Matching)

Specify all values for R1 to Rn

CONFIGURATION (DIMENSIONS IN mm)

SE, SF, SS



Lead space will be determined depending on circuit and number of elements.

Type	SE	SF	SS
L	29.0±0.5	14.0±0.5	7.5±0.5 to 15.5±0.5
W	12.5±0.5	10.0±0.5	7.3±0.5
T		2.7±0.5	2.2±0.5
l		5±1	
t		0.3±0.05	
a		1.0±0.05	
b		0.65±0.05	
c		0.4±0.05	
F		Multiple of 2.54	

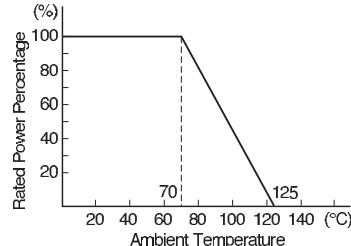
TCR, RESISTANCE RANGE, TOLERANCE, RATED POWER

Type	TCR (ppm/°C)* -25°C to +125°C	Resistance Range Element (Ω)	Maximum Resistance Value Package (Ω)	Resistance Tolerance (%)**		Rated Power/ Package (W) at 70°C
				Absolute	Matching	
SE	0±5	30 to 120k	600k	±0.05 (A) ±0.02 (Q)	±0.01 (T) ±0.01 (B)	1
		30 to 120k	240k	±0.1 (B) ±0.5 (D)	±0.05 (A) ±0.1 (B)	0.5
		30 to 20k	100k	±1 (F)	±0.5 (D) ±1 (F)	0.5

*TCR tracking is dependent on resistance ratio. See Table 1, Ultra Precision Resistor Network datasheet.

**Symbols parenthesized are for type number composition.

POWER DERATING CURVE



PERFORMANCE

Parameters	Test Condition	ALPHA Specification		ALPHA Typical Test Data	
		ΔR	ΔRatio	ΔR	ΔRatio
Maximum Rated Operating Temperature Working Temperature Range		70°C -25°C to +125°C			
Temperature Cycling	-25°C/30 min., Room Temperature/5 min., +125°C/30 min., 5 cycles	±0.05%	±0.01%	±0.01%	±0.005%
Low Temperature Storage Overload Terminal Strength	-25°C, No Load, 2 hrs. Rated Voltage x 2.5, 5 sec. 0.51 kg (1.123 pounds), 10 sec.	±0.05%	±0.01%	±0.005%	±0.0025%
Dielectric Withstanding Voltage Insulation Resistance Resistance to Soldering Heat Moisture Resistance	Atmo. Pres.: AC 300V, 1 min. DC 100V, 1 min. 350°C, 3 sec. +65°C to -10°C, 90% RH to 98% RH, Rated Voltage, 10 cycles (240 hrs.)	±0.03% over 10,000 MΩ	±0.01%	±0.005%	±0.0025%
Shock Vibration	50G, 11 ms., Half-Sine Wave, X, Y, Z, each 3 shocks 20G, 10 Hz to 55 Hz to 10 Hz, 1 min., X, Y, Z, each 2 hrs.	±0.03% ±0.03%	±0.01% ±0.01%	±0.005%	±0.0025%
Life (Rated Load)	70°C, Rated Power, 1.5 hrs. - ON, 0.5 hr. - OFF, 1,000 hrs.	±0.1%	±0.05%	±0.01%	±0.005%
Life (Moisture Load)	40°C, 90% RH to 95% RH, Rated Power, 1.5 hrs. - ON, 0.5 hr. - OFF, 1,000 hrs.	±0.1%	±0.05%	±0.01%	±0.005%
High Temperature Exposure	125°C, No Load, 1,000 hrs.	±0.1%	±0.05%	±0.01%	±0.005%
Storage Life	15°C to 35°C, 15% RH to 75% RH, No Load, 10,000 hrs.	±0.05%	±0.03%	±0.005%	±0.0025%

©2023 VPG - All Rights Reserved