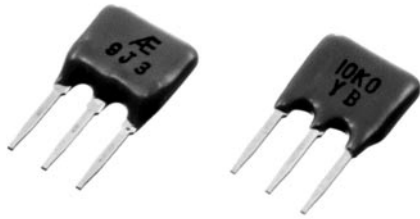


Precision Resistor 1-2-3 Network (Conformally Coated)



TCR, Resistance Range, Tolerance, Rated Power

Type	TCR(ppm/°C) -25°C to +125°C		Resistance Range Element(Ω)*	Resistance Tolerance(%)		Rated Power Package(W) at 70°C
	Absolute	Tracking		Absolute	Matching	
SLD	0±5(X)	See Table 1	50 to 100	±0.1(B) ±0.5(D)	±0.05(A) ±0.1 (B)	0.25
	0±2.5(Y)		100 to 30k	±0.05(A) ±0.1 (B)	±0.02(Q) ±0.05(A) ±0.1 (B)	

Symbols parenthesized are for type number composition.
*Consult factory for resistance values composing network.

Composition of Type Number

Example: $R_1 = R_2$

SLD 1X 10K00 BA
 ① ② ③ ④ ⑤ ⑥

Example: $R_1 \neq R_2$

SLD 2X 1K000/10K00 BQ
 ① ② ③ ④ ⑤ ⑥

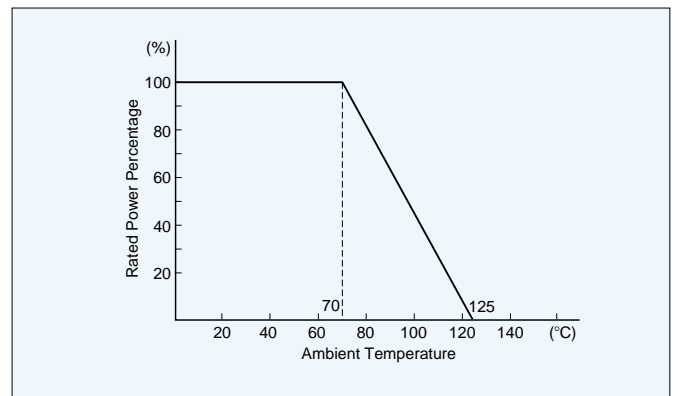
- ① Type
- ② Number of Values
- ③ TCR absolute
- ④ Nominal Resistance Values
- ⑤ Resistance Tolerance(Absolute)
- ⑥ Resistance Tolerance(Matching)

Resistance value, in ohm, is expressed by a series of 5 characters, 4 of which represent significant digits while the 5th R or K is a dual purpose letter that designates both the value range (R for ohmic; K for kilo-ohm) and the location of decimal point.

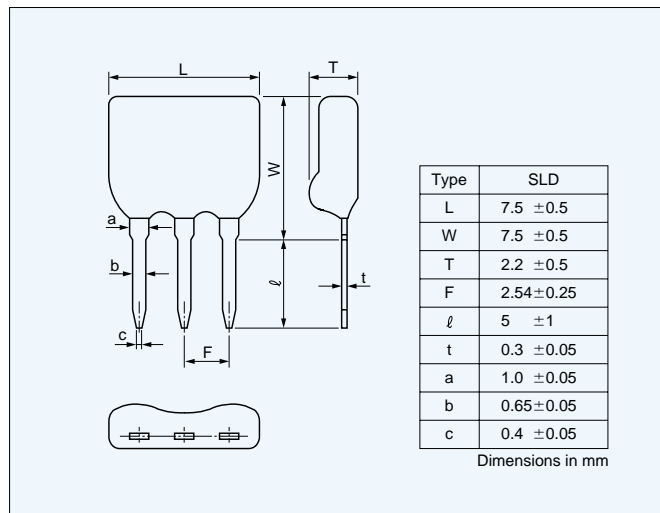
Table 1. TCR Tracking is Subject to Resistance Ratio

Resistance Ratio	TCR Tracking Available (ppm/°C)
Resistance Ratio=1	±0.5
$1 < \text{Resistance Ratio} \leq 10$	±1
$10 < \text{Resistance Ratio} \leq 100$	±2
$100 < \text{Resistance Ratio}$	±3

Power Derating Curve



Configuration



Performance

Parameters	Test Condition	ALPHA Specification		ALPHA Typical Test Data	
		ΔR	Δ Ratio	ΔR	Δ Ratio
Max. Rated Operating Temperature Working Temperature Range		70°C -25°C to +125°C			
Temperature Cycling Overload	-25°C/30min., Room Temperature/5min., 125°C/30min., 5cycles Rated Voltage×2.5, 5 sec.	±0.05% ±0.05%	±0.01% ±0.01%	±0.01% ±0.0025%	±0.005% ±0.001%
Low Temperature Operation Terminal Strength	-25°C, No Load, 2hrs 0.908kg(2pounds),10 sec.	±0.05% ±0.05%	±0.01% ±0.01%	±0.0025% ±0.0025%	±0.001% ±0.001%
Dielectric Withstanding Voltage	Atmospheric:AC 300V, 1 min.	±0.03%	±0.01%	±0.0025%	±0.001%
Insulation Resistance	DC 100V, 1 min.	over 10,000MΩ		over 10,000MΩ	
Resistance to Soldering Heat Moisture Resistance	350°C, 3 sec. +65°C to -10°C, 90%RH to 98%RH, Rated Voltage, 10cycles(240hrs)	±0.03% ±0.1%	±0.01% ±0.05%	±0.0025% ±0.03%	±0.001% ±0.01%
Shock Vibration	50G, 11ms, Half-sine Wave, X, Y, Z, each 3 shocks 20G, 10Hz to 55Hz to 10Hz, 1min., X, Y, Z, each 2hrs	±0.03% ±0.03%	±0.01% ±0.01%	±0.005% ±0.005%	±0.001% ±0.001%
Life(Rated Load)	70°C, Rated Power, 1.5hr.-ON, 0.5hr.-OFF, 1000hrs	±0.1%	±0.05%	±0.01%	±0.005%
Life(Moisture Load)	40°C, 90%RH to 95%RH, Rated Power, 1.5hr.-ON, 0.5hr.-OFF, 1000hrs	±0.05%	±0.01%	±0.01%	±0.005%
Storage Life	15°C to 35°C, 15%RH to 75%RH, No Load, 10000hrs	±0.02%	±0.01%	±0.005%	±0.0025%
High Temperature Exposure	125°C, No Load, 1000hrs	±0.05%	±0.01%	±0.01%	±0.005%

Example of Applications

An Application of Type SLD (Input/feed-back resistors for amplifiers)
Because the input and the feedback resistors are incorporated into one single element, amplification is not affected by temperature change.

