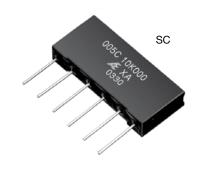
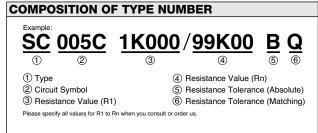
Alpha Electronics

RoHS

Ultra Precision Resistor Network (Case-Encapsulated)

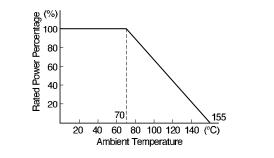


CONFIGURATION (DIMENSIONS IN mm) Туре SC 30.0±0.5 L w 13.0±0.5 > т 5.0±0.5 8±5 l 0.5±0.05 а 0.25±0.05 Multiples of 2.54 F Lead space will be determined depending on circuit and number of elements.



Resistance value, in ohm, is expressed by a series of five characters, four of which represent significant digits. 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.





TCR, RESISTANCE RANGE, TOLERANCE, RATED POWER										
Туре	TCR (ppm/°C) –25°C to +125°C	Resistance Range Element (Ω)*	Max. Resistance Value Package (Ω)	Resistance Tolerance (%)		Rated Power/				
				Absolute**	Matching**	Package (W) at 70°C				
SC	0±5	30 to 120k	1,200k	$\begin{array}{c} \pm 0.01 \ (T) \ \pm 0.02 \ (Q) \\ \pm 0.05 \ (A) \ \pm 0.1 \ (B) \\ \pm 0.5 \ (D) \ \pm 1 \ (F) \end{array}$	$\begin{array}{l} \pm 0.01 \ (T) \ \pm 0.02 \ (Q) \\ \pm 0.05 \ (A) \ \pm 0.1 \ (B) \\ \pm 0.5 \ (D) \ \pm 1 \ (F) \end{array}$	1.5				

*TCR tracking is dependent on resistance ratio. See Table 1 on P32, Ultra Precision Network datasheet.

**Symbols parenthesized are for type number composition.

PERFORMANCE									
Parameters	Test Condition		ALPHA Specification		ALPHA Typical Test Data				
		ΔR	∆Ratio	ΔR	∆Ratio				
Maximum Rated Operating Temperature Working Temperature Range		70°C -55°C to +155°C							
Thermal Shock	–55°C/30 min.↔+155°C/30 min., 5 cycles	±0.05%	±0.01%	±0.01%	±0.005%				
Low Temperature Storage Overload Terminal Strength	–55°C, No Load, 2 hrs. Rated Voltage x 2.5, 5 sec. 0.51 kg (1.123 pounds),10 sec.	±0.05% ±0.05% ±0.05%	±0.01% ±0.01% ±0.01%	±0.005% ±0.0025% ±0.005%	±0.0025% ±0.001% ±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,	±0.03% over 10, ±0.03% ±0.05%	±0.01% 000 MΩ ±0.01% ±0.01%	±0.005% over 10, ±0.005% ±0.015%	±0.0025% 000 MΩ ±0.0025% ±0.005%				
Shock Vibration	10 cycles (240 hrs.) 100G, 6 ms., Sawtooth Wave, X, Y, Z, each 6 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% ±0.005%	±0.0025% ±0.0025%				
Life (Rated Load) Life (Moisture Load)	70°C, Rated Power, 1.5 hrs. – ON, 0.5 hr. – OFF, 1,000 hrs. 40°C, 90% RH to 95% RH, Rated Power, 1.5 hrs. – ON, 0.5 hr. – OFF, 1,000 hrs.	±0.05% ±0.05%	±0.01% ±0.01%	±0.01% ±0.01%	±0.005% ±0.005%				
High Temperature Exposure	155°C, No Load, 1,000 hrs.	±0.03%	±0.01%	±0.01%	±0.005%				
Storage Life	15°C to 35°C, 15% RH to 75% RH, No Load, 10,000 hrs.	±0.03%	±0.01%	±0.005%	±0.0025%				



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