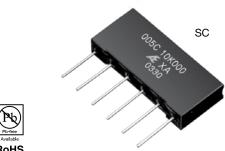
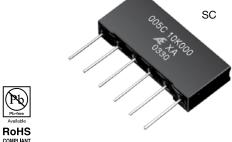
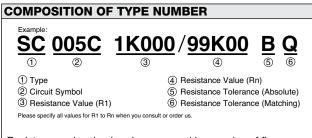


Ultra Precision Resistor Network (Case-Encapsulated)

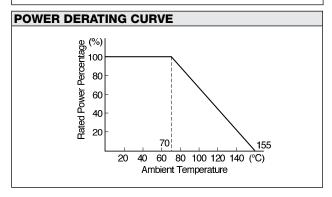




CONFIGURATION (DIMENSIONS IN mm)							
 	* 	Type	sc				
4		L	30.0±0.5				
		W	13.0±0.5				
≥		Т	5.0±0.5				
		l	8±5				
	Щ.	а	0.5±0.05				
	-∥-`	t	0.25±0.05				
₩ ₩ U U U U <u>U</u>	Ц	F	Multiples of 2.54				
 							



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		Resistance Range	Max. Resistance Value Package (Ω)	Resistance Tolerance (%)		Rated Power/		
		Element (Ω)*		Absolute**	Matching**	Package (W) at 70°C		
sc	0±5	30 to 120k	1,200k	±0.01 (T) ±0.02 (Q) ±0.05 (A) ±0.1 (B) ±0.5 (D) ±1 (F)	±0.01 (T) ±0.02 (Q) ±0.05 (A) ±0.1 (B) ±0.5 (D) ±1 (F)	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	ΔRatio	ΔR	ΔRatio			
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	Atmo. Pres.: AC 300V, 1 min. DC 100V, 1 min.		over 10,000 MΩ		±0.005% ±0.0025% over 10,000 MΩ			
Resistance to Soldering Heat Moisture Resistance	350°C, 3 sec. +65°C to -10°C, 90% RH to 98% RH, Rated Voltage, 10 cycles (240 hrs.)	±0.03% ±0.05%	±0.01% ±0.01%	±0.005% ±0.015%	±0.0025% ±0.005%			
Shock Vibration	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)	70°C, Rated Power, 1.5 hrs. – ON, 0.5 hr. – OFF, 1,000 hrs.	±0.05%	±0.01%	±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.	±0.05%	±0.01%	±0.01%	±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%			