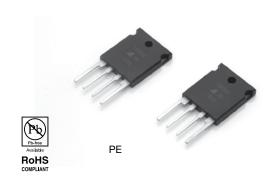
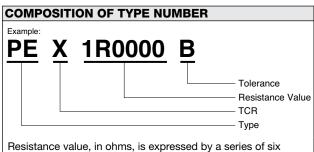
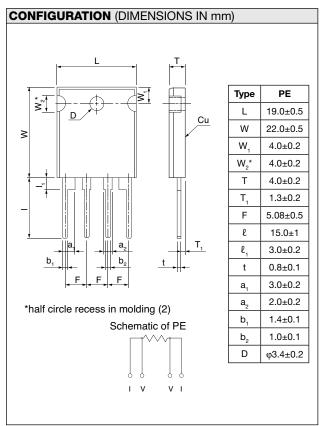


Ultra Precision Shunt Resistor (10 Watts, TO Package)



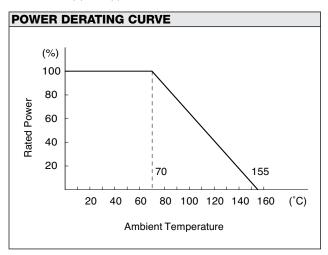


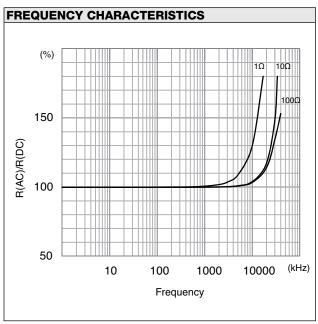
characters, five of which represent significant digits. R or K is a dual-purpose letter that designates both the value range (R for ohmic; K for kilo-ohm) and the location of the decimal point.



TCR, RESISTANCE RANGE, TOLERANCE, RATED POWER					
TCR (ppm/°C) -25°C to +125°C	Resistance Range (Ω)	Resistance Tolerance (%)	Rated Power (W) at 70°C		
0±15 (W) 0±5 (X)	0.5 to 1	±0.05 to ±5 (A, B, D, F, G, J)			
	1 to 5	±0.02 to ±5 (Q, A, B, D, F, G, J)	1.5 in free air and 10 on heat sink**		
0±15 (W) 0±5 (X) 0±2.5 (Y)	5 to 25	±0.02 to ±5 (Q, A, B, D, F, G, J)			
	25 to 500	±0.01 (T), ±0.02 (Q) ±0.05 (A), ±0.1 (B) ±0.5 (D), ±1 (F) ±2 (G), ±5 (J)			

** For heat sinking, an aluminum chassis in 152.4 mm (L) \times 101.6 mm (W) \times 50.8 mm (H) \times 1.0 (T) shall be used.







PERFORMANCE					
Parameters	Test Condition	ALPHA Specification	ALPHA Typical Test Data		
Maximum Rated Operating Temperature Working Temperature Range Maximum Working Current		70°C -55°C to +155°C 5A			
Power Conditioning	25°C, Rated Power, 96 hrs.	±0.05%	±0.01%		
Low Temperature Storage Dielectric Withstanding Voltage Insulation Resistance Low Temperature Operation Overload Moisture Resistance Terminal Strength	-55°C, No Load, 24 hrs. Atmo. Pres.: AC 1 KV, 1 min. Baro. Pres. 8 mHg: AC 500V, 1 min. DC 500V, 2 min55°C, Rated Power Rated Power x 2.5, 5 sec. +65°C to -10°C, 90% RH to 98% RH, Rated Voltage, 10 cycles (240 hrs.) 2.27 kg (5 pounds), 10 sec.	$\begin{array}{c} \pm 0.01\% \\ \pm 0.01\% \\ \text{over } 10,000 \text{ M}\Omega \\ \pm 0.01\% \\ \pm 0.05\% \\ \pm 0.05\% \\ \pm 0.05\% \end{array}$	$\begin{array}{c} \pm 0.005\% \\ \pm 0.005\% \\ \text{over } 10,000 \ M\Omega \\ \pm 0.005\% \\ \pm 0.01\% \\ \pm 0.02\% \\ \pm 0.005\% \end{array}$		
Shock Vibration, High Frequency	100G, 6 ms., Sawtooth Wave, X, Y, Z, each 3 shocks 20G, 10 Hz to 2,000 Hz to 10 Hz, 20 min., X, Y, Z, each 4 hrs.	±0.01% ±0.01%	±0.005% ±0.005%		
Life	70°C, Rated Power, 1.5 hr. – ON, 0.5 hr. – OFF, 2,000 hrs.	±0.05%	±0.02%		
High Temperature Exposure	155°C, No Load, 2,000 hrs.	±0.05%	±0.02%		
Solderability	245°C, 5 sec.	over 95% coverage			

