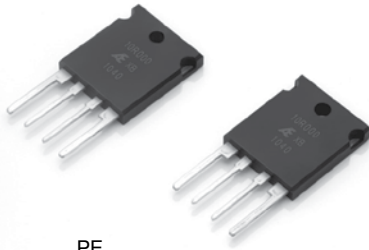


Ultra Precision Shunt Resistor (10 Watts, TO Package)



RoHS
COMPLIANT

PE

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)	1.5 in free air and 10 on heat sink**
	1 to 5	±0.02 to ±5 (Q, A, B, D, F, G, J)	
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) × 101.6 mm (W) × 50.8 mm (H) × 1.0 (T) shall be used.

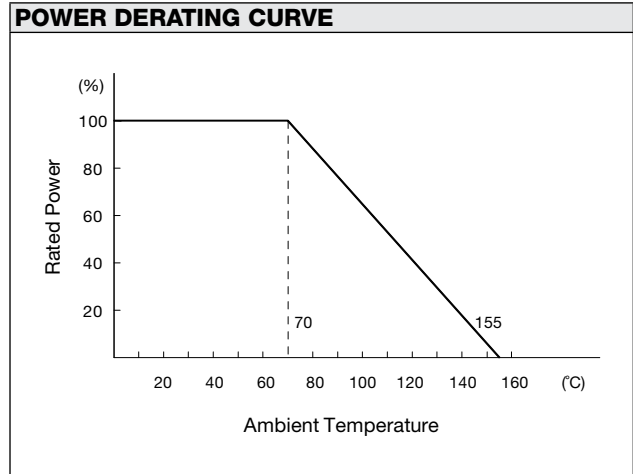
COMPOSITION OF TYPE NUMBER

Example:

PE X 1R0000 B

PE: Type
 X: TCR
 1R0000: Resistance Value
 B: Tolerance

Resistance value, in ohms, is expressed by a series of six 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.

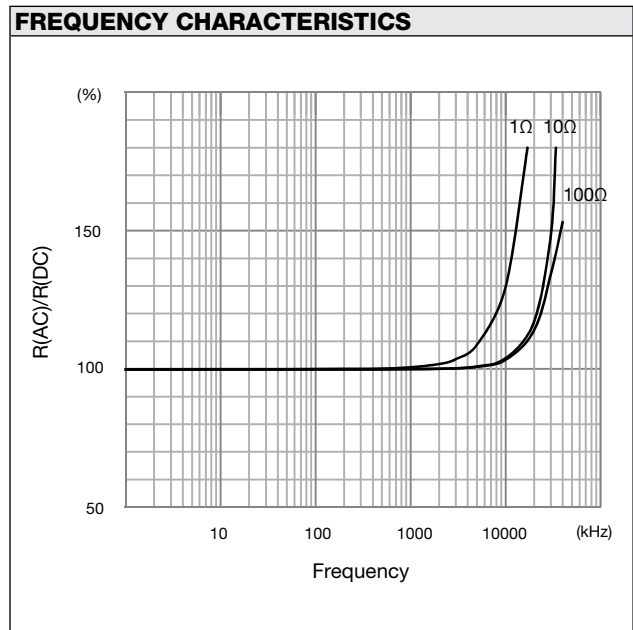


CONFIGURATION (DIMENSIONS IN mm)

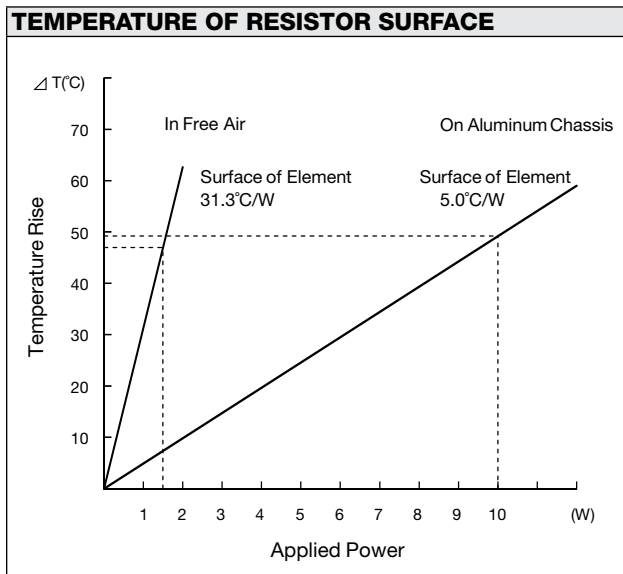
Type	PE
L	19.0±0.5
W	22.0±0.5
W ₁	4.0±0.2
W ₂ *	4.0±0.2
T	4.0±0.2
T ₁	1.3±0.2
F	5.08±0.5
l	15.0±1
l ₁	3.0±0.2
t	0.8±0.1
a ₁	3.0±0.2
a ₂	2.0±0.2
b ₁	1.4±0.1
b ₂	1.0±0.1
D	Dia. 3.4±0.2

*half circle recess in molding (2)

Schematic of PE



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 min. -55°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.	±0.01% ±0.01% over 10,000 MΩ ±0.01% ±0.05% ±0.05% ±0.05%	±0.005% ±0.005% over 10,000 MΩ ±0.005% ±0.01% ±0.02% ±0.005%
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	





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