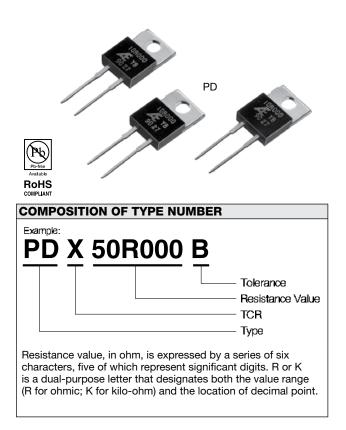
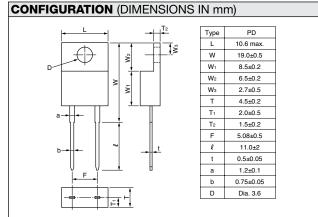


## Ultra Precision Power Resistor (8 Watts, TO-220)



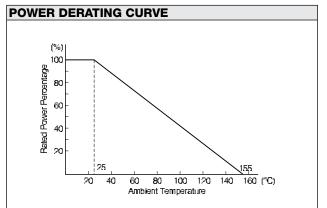


## TCR, RESISTANCE RANGE, TOLERANCE, **RATED POWER** TCR (ppm/°C) Resistance Rated Resistance Type –25°C to Range Power (W) Tolerance (%)\*† +125°C\* at 25°C (Ω) ±1 to ±5 0±15 (W) 0.1 to 1 (F, G, J) 1.5 0±15 (W) ±0.5 to ±5 In free air 1 to 5 0±5 (X) (D, F, G, J) ±0.1 to ±5 and PD 5 to 10 (B, D, F, G, J) 0±15 (W) 8 ±0.05 to ±5 0±5 (X) 10 to 25 On heat (A, B, D, F, G, J) 0±2.5 (Y) sink\*\* ±0.02 to ±5 25 to 10k (Q, A, B, D, F, G, J)

\* Symbols in parentheses are for type number composition.

 $\dagger\,$  Resistance figures are the values obtained by measuring the leads at point 5.08±0.6 mm away from the root.

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





PERFORMANCE			
Parameters	Test Condition	MIL-R-39009 Specification	ALPHA Typical Test Data
Maximum Rated Operating Temperature Working Temperature Range Maximum Working Voltage Maximum Working Current		25°C -55°C to +155°C 250V 4A	
Power Conditioning	25°C, Rated Voltage, 96 hrs.	±0.2%	±0.02%
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 Voltage Rated Voltage x 2.5, 5 sec. +65°C to -10°C, 90% RH to 98% RH, Rated Voltage, 10 cycles (240 hrs.) 0.908 kg (2 pounds),10 sec.	$\pm 0.3\%$ $\pm 0.2\%$ over 10,000 M $\Omega$ $\pm 0.3\%$ $\pm 0.3\%$ $\pm 0.5\%$ $\pm 0.2\%$	$\begin{array}{c} \pm 0.005\% \\ \pm 0.005\% \\ \text{over 10,000 } M\Omega \\ \pm 0.005\% \\ \pm 0.01\% \\ \pm 0.05\% \\ \pm 0.005\% \end{array}$
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, 20min., X, Y, Z, each 4 hrs.	±0.02% ±0.02%	±0.005% ±0.005%
Life	25°C, Rated Power, 1.5 hr. – ON, 0.5 hr. – OFF, 2,000 hrs.	±1.0%	±0.01%
High Temperature Exposure	155°C, No Load, 2,000 hrs.	±1.0%	±0.01%
Solderability	245°C, 5 sec.	over 95% coverage	

