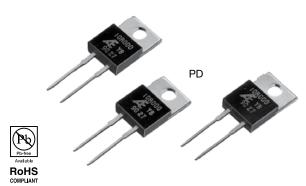
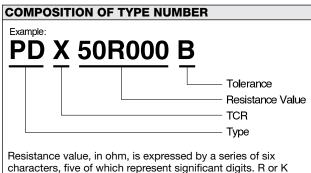
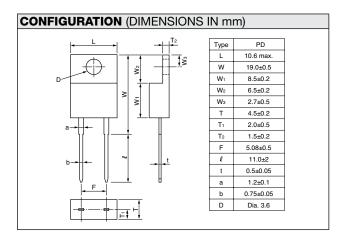


## **Ultra Precision Power Resistor (8 Watts, TO-220)**



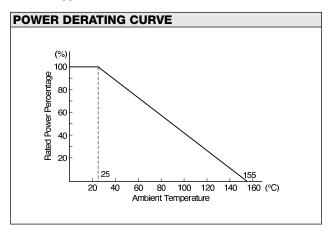


is a dual-purpose letter that designates both the value range (R for ohmic; K for kilo-ohm) and the location of decimal point.



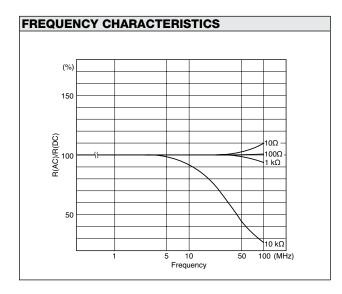
- ,	TCR, RESISTANCE RANGE, TOLERANCE, RATED POWER						
Туре	TCR (ppm/°C) -25°C to +125°C*	Resistance Range (Ω)	Resistance Tolerance (%)*†	Rated Power (W) at 25°C			
	0±15 (W)	0.1 to 1	±1 to ±5 (F, G, J)				
	0±15 (W) 0±5 (X)	1 to 5	±0.5 to ±5 (D, F, G, J)	1.5 In free air			
PD	0±15 (W) 0±5 (X) 0±2.5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

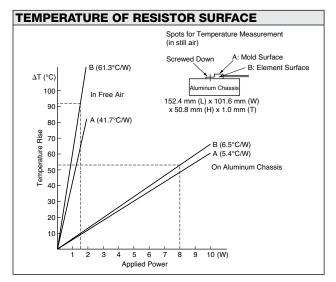
- \* Symbols in parentheses are for type number composition.
- $\uparrow$  Resistance figures are the values obtained by measuring the leads at point 5.08 $\pm$ 0.6 mm away from the root.
- \*\* For heat sinking, an aluminum chassis in 152.4 (L) x 101.6 (W) x 50.8 (H) x 1.0 mm (T) should be used.





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, 1min. DC 500V, 2 min55°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.	$\begin{array}{c} \pm 0.3\% \\ \pm 0.2\% \\ \text{over } 10,000 \text{ M}\Omega \\ \pm 0.3\% \\ \pm 0.3\% \\ \pm 0.5\% \\ \pm 0.2\% \end{array}$	$\begin{array}{c} \pm 0.005\% \\ \pm 0.005\% \\ \text{over } 10,000 \text{ M}\Omega \\ \pm 0.005\% \\ \pm 0.01\% \\ \pm 0.05\% \\ \pm 0.005\% \end{array}$			
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.	±0.2% ±0.2%	±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				







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