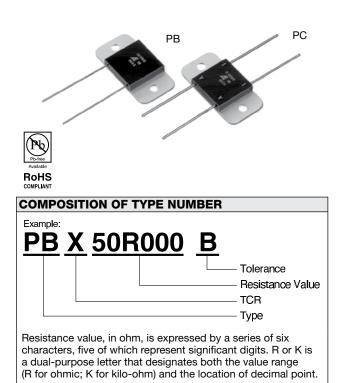
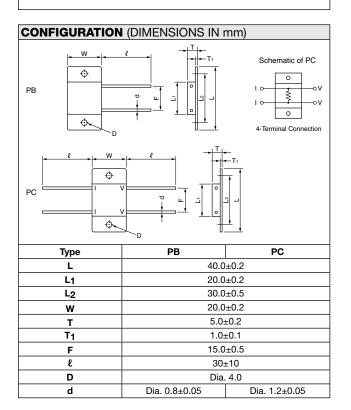


Ultra Precision Power Resistor (10 Watts)





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)	0.4 to 1	1 to ±5 (F, G, J)				
	0±15 (W) 0±5 (X) 0±2.5 (Y)	1 to 5	±0.5 to ±5 (D, F, G, J)	2 in free air and 10 On heat sink **			
РВ		5 to 10	±0.1 to ±5 (B, D, F, G, J)				
		10 to 25	±0.05 to ±5 (A, B, D, F, G, J)				
		25 to 50	±0.02 to ±5 (Q, A, B, D, F, G, J)				
		50 to 50k	±0.01 to ±5 (T, Q, A, B, D, F, G, J)				
	0±15 (W)	0.002 to 0.05	±0.5 to ±5 (D, F, G, J)				
	0±15 (W) 0±5 (X)	0.05 to 0.1	±0.5 to ±5 (D, F, G, J)				
PC	0±15 (W) 0±5 (X) 0±2.5 (Y)	0.1 to 5	±0.1 to ±5 (B, D, F, G, J)				
PC		5 to 10	±0.05 to ±5 (A, B, D, F, G, J)				
		10 to 25	±0.02 to ±5 (Q, A, B, D, F, G, J)				
		25 to 100	±0.01 to ±5 (T, Q, A, B, D, F, G, J)				

* Symbols in parentheses are for type number composition.

† Resistance figures for type PB are the values obtained by measuring the leads at point 12.7±3.2 mm away from the root, but in case of resistance below 10 ohm, the values at 5.08±0.6 mm away.

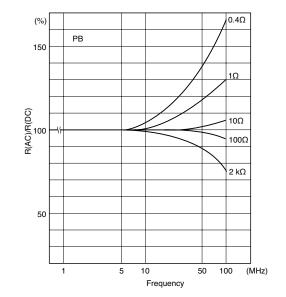
* For heat sinking, an aluminum chassis in 152.4 (L) x 101.6 (W) x 50.8 (H) x 1.0 mm (T) shall be used.

POWER DERATING CURVE (%) 100 Rated Power Percentage 80 60 40 20 25 55 160 (°C) 20 40 60 80 100 120 140 Ambient Temperature

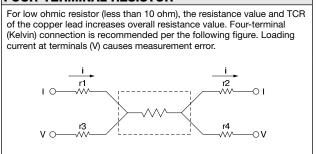


PERFORMANCE						
Parameters	Test Condition	MIL-R-39009 Specification	ALPHA Typical Test Data			
Maximum Rated Operating Temperature Working Temperature Range Maximum Working Voltage Maximum Working Current		25°C -55°C to +155°C 750V PB=5A, PC=32A				
Power Conditioning	25°C, Rated Voltage, 96 hrs.	±0.2%	±0.2%			
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.) 2.27 kg (5 pounds),10 sec.	$\pm 0.3\%$ $\pm 0.2\%$ over 10,000 M Ω $\pm 0.3\%$ $\pm 0.3\%$ $\pm 0.5\%$ $\pm 0.2\%$	$\begin{array}{c} \pm 0.005\% \\ \pm 0.005\% \\ \text{over 10,000 } M\Omega \\ \pm 0.005\% \\ \pm 0.01\% \\ \pm 0.05\% \\ \pm 0.005\% \end{array}$			
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, 20 min., 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			

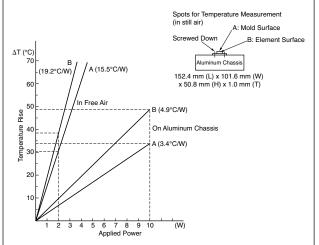




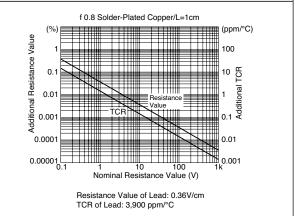
FOUR-TERMINAL RESISTOR







AFFECT OF PB TYPE LEAD FOR RESISTANCE VALUE AND TCR





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