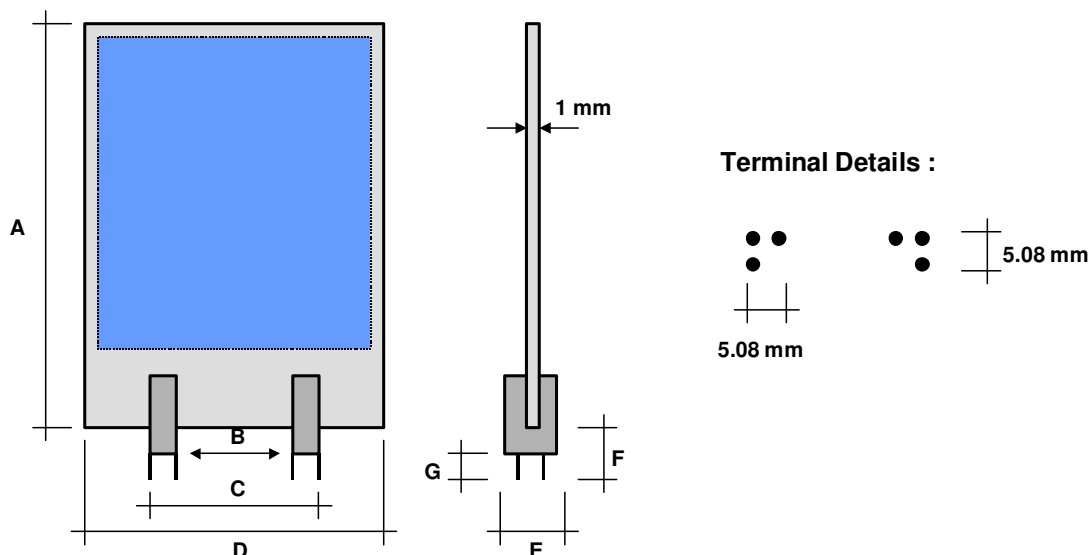


## High Power Planar Resistors Series TP Steel Carrier, Non-Inductive



### Features :

- Low Inductance
- Easy to Install (no Heat Sink required)
- High Power Density (2 Watts/ cm<sup>2</sup>)
- Excellent Pulse withstanding Capabilities
- Very Robust Construction

Series TP is a plate resistor system utilizing thick film ruthenium oxide, on hi-temp/ hi-voltage dielectric insulated steel substrate, protected by a glass passivation layer. These resistors offer low inductance and very high power densities. Being PC-board mountable without heat sink, they are economic to install and best suited for applications under 300V.

Model	Power Ratings	Max. Operating Voltage	Dimensions in millimeters ± 1.00 [Dimensions in inches ± 0.04]						
			A	B	C	D	E	F	G
TP-50	50 Watts	300 Volts	64.00 [2.52]	25.40 [1.00]	35.56 [1.40]	45 [1.77]	10 [0.40]	10 [0.40]	5 [0.20]
TP-100	100 Watts	300 Volts	85.00 [3.35]	33.02 [1.30]	43.18 [1.70]	65 [2.56]	10 [0.40]	10 [0.40]	5 [0.20]

### Characteristics

Resistance Value :	1 Ohm up to 10 Kohm		
Temperature Coefficient :	150 ppm/°C		
Tolerance :	1%, 2%, 5%, 10%, 20% *		
Power Rating :	Based on 25°C free air.		
Inductance :	< 50 nH @ MHz (typ.)		
Derating :	Linearly from 100% @ +25°C to 0% @ +300°C.		
Insulation Resistance :	> 1'000 MΩ	Between two terminals and steel plate	
Dielectric Strength :	> 500 Volt	25 °C 75% Relative humidity	
Overload :	Δ R/R 1%	5 x Pnom, as long as the 1 sec. average does not exceed Pnom.	
Moisture Resistance :	Δ R/R 1%	MIL Std. 202, method 106	IEC 68 - 2 - 3
Load Life :	Δ R/R 2%	2000 hours at rated power *	IEC 115 - 1
Encapsulation :	Screen Printed Glass	Substrate Material :	Stainless Steel
Lead Material :	Tinned Steel	Resistor Material :	Ruthenium Oxide

\* Note : 20% values are not laser trimmed and offer enhanced surge handling.