

# OMEGA PRODUCTS PRIVATE LIMITED

## Datasheet for Thick Film Power Resistors OTP Series

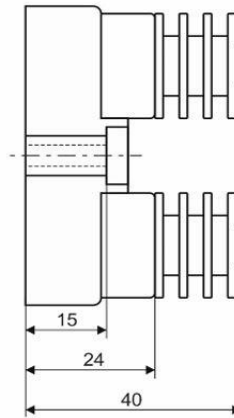
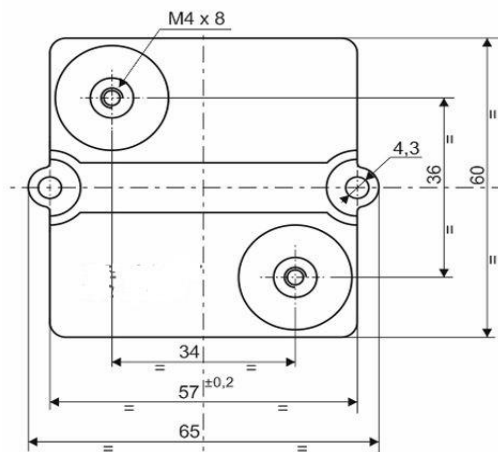
### DESCRIPTION

Omega High power resistors are made from high quality materials for optimum reliability and stability with very low partial discharge. High power resistors are available in multiple different combination as per customer requirements and specifications. Resistors are available with with very low inductance and easy mounting. These Resistors are used for applications like Snubbing, balancing resistor, high voltage, high frequency and filter.

### FEATURES :

Wide Range of Resistors  
Low Partial Discharge

Low Inductance  
RoHS Compliant  
Custom Built Design and values available



### SPECIFICATION

Type	Wattage	Working Voltage	Resistance Range	Impulse	Tol	TCR
OTP 800T	800W	5200V	1R to 1M	12kv	1% to 10%	150 ppm

### PERFORMANCE CHARACTERISTIC

Overload

**Requirement Shall not Exceed**

1KW

Parallel Capacitance

40pF

Capacitance to Heatsink

< 150pF

Self Inductance

80nH

Creep Distance

65 mm

Air Gap Distance

29 mm

Thermal Resistance

115°C/W

Heat Sink Flatness

0.05 mm

Heat Sink Surface finish

6.3 µm Max

Thermal Resistance

0.11°C/W

Thermal Grease Required

$\lambda > 1\text{W/mK}$

Max Torque of Contacts & Mounting

2Nm (Static)

Insulation Resistance (at 500V for 1 Min)

Shall not be less than  $10^5$  M Ohms

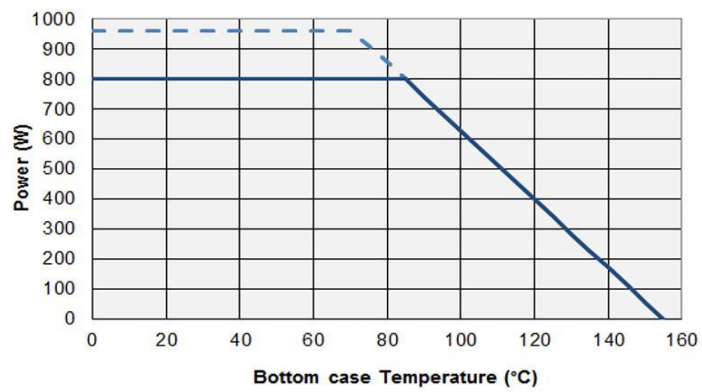
Partial Discharge at 5kV

Shall be less than 10 pc

DWV Test (terminal to heatsink)  
Temperature Range

No Flash over at 7kv rms  
-55 to +150°C

**DERATING CURVE**



**Ordering Info: OTP 800T 10R K**

OTP 800T

800T - 800W

10R - Resistance Value

Tolerance F-1%, J-5%,K-10%

*Specifications are subject to change without notice*