

OMEGA PRODUCTS PRIVATE LIMITED

Thick Film Power Resistors OTO 20X (TO220)

DESCRIPTION

Film of conductive and resistive ink is screen printed 96% alumina ceramic substrate. Tin coated electrolytic copper housing is fitted to resistors. The resistor is molded with special compound for electrical, mechanical and climatic protection. Marking is done with respect to designated value on molded Resistor.

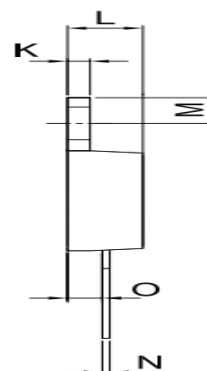
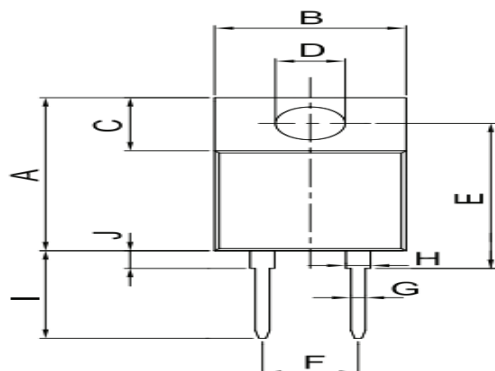
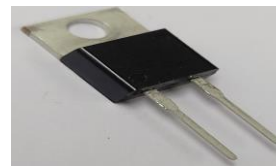
FEATURES :

Metal heat sink mounting tab

Wide range of resistors

Pulse withstanding design available

Custom built design and values available



SPECIFICATION

Type	Wattage		Dimensions							
	With Heat sink	Without Heat sink	A	B	C	D	E	F	G	H
OTO202	25 W	1.25W	15.5 ±0.2	10.3 ±0.2	6.6 ±0.2	3.8 ±0.1	15.6 ±0.5	5.00 ±0.10	0.78 ±0.05	1.3 ±0.2
OTO203	35W	2.0W	I	J	K	L	M	N	O	
OTO205	50W	2.25W	13 ±0.2	3.5 ±0.2	1.3 ±0.1	4.6 ±0.2	2.8 ±0.1	0.4 ±0.05	2.9 ±0.1	

PERFORMANCE CHARACTERISTIC

	Requirement Shall not Exceed
Resistance Range	10 Ohm to 1M Ohm
Tolerance	±1%, 5%
Max Working Voltage	350V
Temperature Coefficient of Resistance	100 ppm/°C
Short Term Overload (1.5 x Rated wattage - 5 Sec)	Delta R ± (0.5% +0.05 Ohms)
Load Life (Rated 1000 Hrs 1.5/0.5 Hr ON/OFF)	Delta R ± (1.0% +0.05 Ohms)
Moisture Resistance	Delta R ± (0.5% +0.05 Ohms)
Temperature Cycling (-55 /+155, 5 cycles)	Delta R ± (0.25% +0.05 Ohms)
Insulation Resistance (at 500V for 1 Min)	Shall not be less than 1000 M Ohms
DWV Test	No Flash over at 1.5KV
Resistance Soldering Heat (260°C 10 Sec)	Delta R ± (0.1% +0.05 Ohms)
Solderability (Solder bath dip - 5 Sec)	Greater than 95% Coverage
Resistance to Solvents (Solvent dip - 3 min)	No effect of IPA /TCE Solvents
Terminal Strength (Bending, Tensile, Torsion)	No Mechanical Damage
Derating	Linearly from rated dissipation at 70°C to Zero at 150°C

Ordering Info:

OTO202 1K 5% 100 ppm

OTO202 - Omega Power Resistor 25Watt

1K - resistance Value

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

100 ppm - TCR

*Specifications is subject to change without notice

www.omegaresistors.com