

Type "TO-20"

TO-220 Thick-Film Heat Sink Device

Features

- TO-220 style package
- Miniature size
- Maximum power size ratio
- High stability
- Optimum heat dissipation
- High temperature molding
- Noninductive



Variations

- Tolerance to 0.5%
- Lead length
- Temperature coefficient:
Less than 10Ω, 100ppm
Above 10Ω, 50ppm

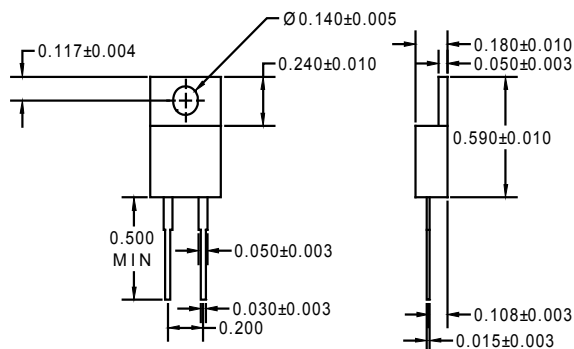
Material

- Heat sink: Plated copper
- Element: High stability thick film
- Leads: Tinned copper
- Molding: High temperature thermoset

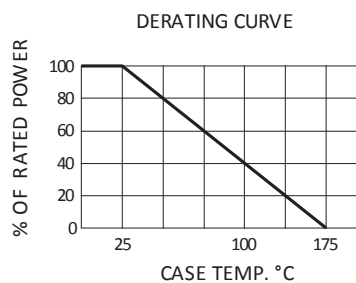
Specifications

| TEPRO TYPE | POWER RATING | DIELECTRIC STRENGTH VAC | MAX VOLTAGE | RESISTANCE (OHMS) | |
|------------|--------------|-------------------------|-------------|-------------------|-----|
| | | | | MIN | MAX |
| TO-20 | 20 WATTS | 1000 | 200 | 0.1 | 20K |

Dimensions



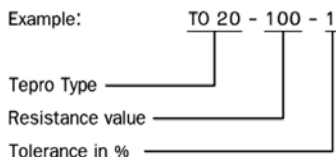
Derating



Power rating of 20 watts with external heatsink.
2.75 watts without heatsink.

How To Order

The part number is a combination of type, resistance value, and Tolerance



Mechanical

- Terminal strength: 5lb. pull test
- Solderability: Meets requirements of MIL-STD-202
- Solvent resistance: Meets requirements of MIL-STD-202



Electro Technik Industries

Capacitive Products

Arizona Capacitors, Inc.
1100 S. Plumer Avenue, Tucson, AZ 85719
tel: 520-573-0221 fax: 520-573-0520
azcapsales@electrotechnik.com
www.arizonacapacitors.com

- Wound Film Capacitors and Electronic Filters

Custom Suppression, Inc.
1100 S. Plumer Avenue, Tucson, AZ 85719
tel: 520-573-0223 fax: 520-573-0520
csisales@electrotechnik.com
www.customsuppression.com

- Broadband, Microwave, EMI, and RFI Filters, Filtered Connectors, and Assemblies

Microwave Products

Res-Net Microwave, Inc.
P.O. Box 18802, Clearwater, FL 33762
tel: 727-530-9555 fax: 727-531-8215
res_sales_service@electrotechnik.com
www.res-netmicrowave.com

- RF/Microwave Resistors, Attenuators, Terminations

Wavetronix Corp.
P.O. Box 18802, Clearwater, FL 33762
tel: 727-530-9555 fax: 727-531-8215
wave_sales_service@electrotechnik.com
www.wavetronix-eti.com

- RF/Microwave Cable Assemblies and Semi-Rigid Coaxial Cables

Resistive Products

Tepro of Florida, Inc.
P.O. Box 18802, Clearwater, FL 33762
tel: 727-796-1044 fax: 727-791-7425
tep_sales_service@electrotechnik.com
www.tepro-vamistor.com

- Wirewound and Metal Film Resistors

Vamistor
P.O. Box 1260, Clearwater, FL 33757
tel: 727-796-1044 fax: 727-791-7425
tep_sales_service@electrotechnik.com
www.tepro-vamistor.com

- Carbon Film and RL 42 Resistors

Magnetics Products

Hytronics Corp.
P.O. Box 18802, Clearwater, FL 33762
tel: 727-535-0413 fax: 727-531-1592
hy_sales_service@electrotechnik.com
www.hytronicscorp.com

- Power Transformers and Power Inductors

Raycom Electronics, Inc.
P.O. Box 250, 1 Raycom Rd.
Dover, PA 17315
tel: 717-292-3641 fax: 717 292-2919
raycomsaleservice@electrotechnik.com
www.raycomelectronics.com

- Custom Military and Avionics Magnetics

Goguen Industries

1100 S. Plumer Avenue, Tucson, AZ 85719
tel: 520-573-0221 fax: 520-573-0520
goguensales@electrotechnik.com
www.goguenindustries.com

- Specialty Inductors, Transformers, and Air Coils

Inductive Technologies, Inc. (ITech)
P.O. Box 18802, Clearwater, FL 33762
tel: 727-532-4459 fax: 727-531-1592
i-techsales@electrotechnik.com
www.inductech.com

- Standard Catalog Inductors and Transformers

Winatic Corp.

P.O. Box 18802, Clearwater, FL 33762
tel: 727-538-8917 fax: 727-531-1592
win_sales_service@electrotechnik.com
www.winatic.com

- Transformers and Inductors for Medical Devices and Equipment