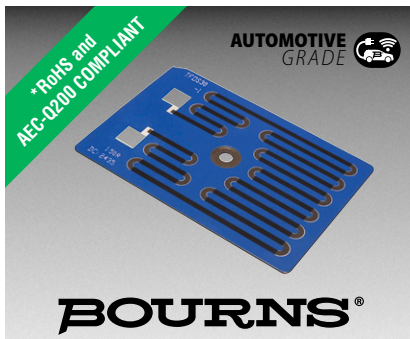




Features

- Low profile thick film on steel
- Low inductance
- High power rating
- RoHS compliant*
- AEC-Q200 compliant and automotive grade

Applications

- AC-DC, DC-DC power converters
- Battery Energy Storage Systems
- Industrial power supplies
- Motor drives
- Dynamic braking systems
- Solar inverters

Model TFOS30-1-150T – Low Profile Thick Film on Steel

Additional Information

Click these links for more information:



Electrical Characteristics

Resistance Range 150 ohms
 Resistance Tolerance $\pm 10\%$ std.
 Power Rating
 on Heat Sink 260 W
 on Fan-Cooled Heat Sink 900 W
 Dielectric Withstand 2500 VDC
 TCR $< +600$ PPM/ $^{\circ}$ C

Environmental Characteristics

Maximum Element Temperature... 365° C
 Inductance < 4 μ H
 Operating Temperature
 -55° C to $+125^{\circ}$ C

Physical Characteristics

Mounting Torque 357 gf m
 Terminals Termination pads

How To Order

TFOS30 - 1 - 150 T

Model _____
 Product Indicator _____
 Resistance Code _____
 Termination _____

T = Termination Pads

Consult Bourns for other available dimensions, resistance values and tolerances.

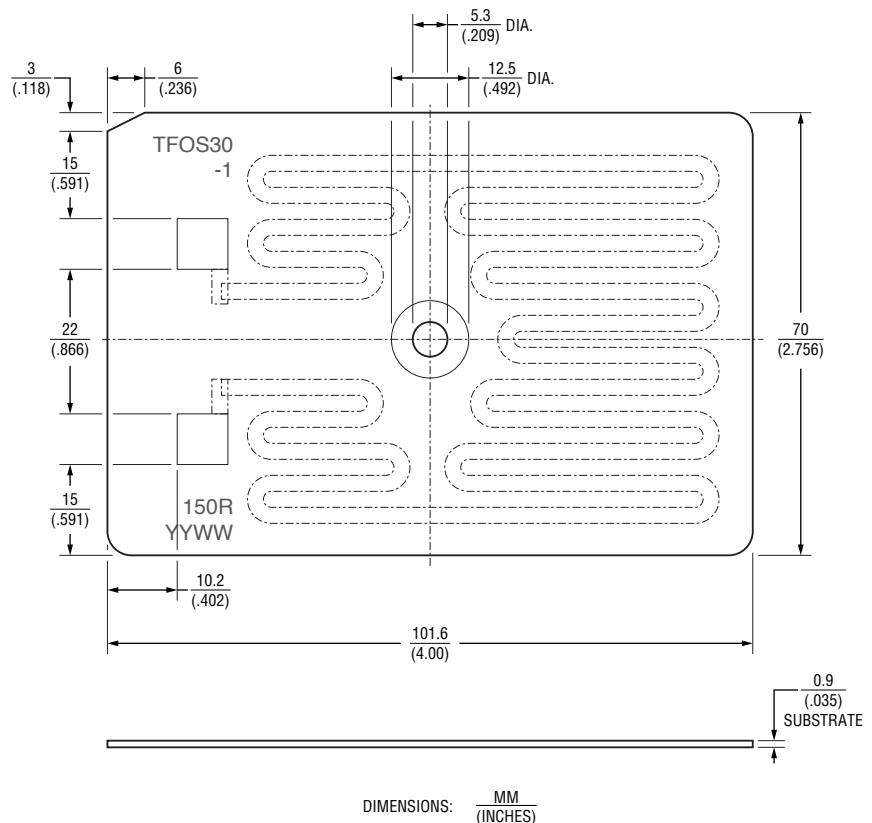
Standard Packaging

Bulk 40 pcs./box

Storage Conditions

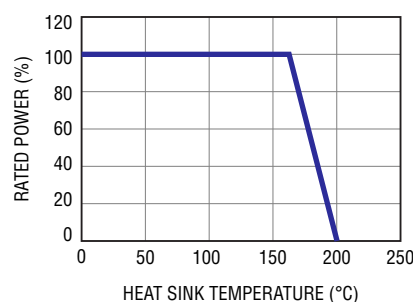
Temperature $10-30^{\circ}$ C
 Relative Humidity 30-70 % RH
 Sulfur-free atmosphere to prevent the silver in the pads from tarnishing.

Product Dimensions



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$
 TOLERANCES: ± 0.25 EXCEPT WHERE NOTED
 ($\pm .010$)

Derating Curve



WARNING
 Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Notes:

Due to the Model TFOS30's high power/energy capability, it can be used in pre-charge or discharge applications where a high level of performance is required.

The solder reflow process can be used with a termination pad.

Model TFOS30 is often used as a braking resistor.

A heatsink with thermal resistance $\leq 0.59^{\circ}$ C/W will enable the component to operate at its continuous power rating. Full coverage, void-free thermal grease must be applied when using a heat sink.

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REV. 05/25

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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