

# TFBR

## Stainless Steel Power Resistors

The TFBR series provides high power density in a low profile package. Designed for easy assembly and supplied with a variety of terminal styles, the film technology lends itself to high frequency operation due to its low inductance characteristics. The added benefit of high instantaneous pulse capacity also makes the TFBR suitable for braking, snubbing and discharge requirements. This product is RoHS compliant.



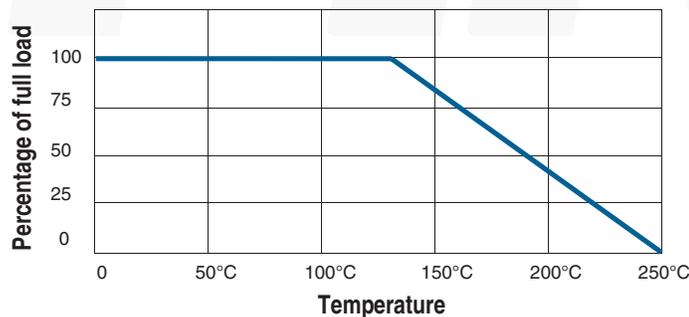
### CHARACTERISTICS

<b>Tolerance (Code):</b>	± 10% (K)
<b>Operating temperature:</b>	-50°C to +200°C
<b>Max operating voltage:</b>	1000Vdc
<b>Temperature coefficient:</b>	±150ppm/°C
<b>Max surface temperature:</b>	200°C. For > 200°C please contact ARCOL
<b>Dielectric strength:</b>	2.5kVdc, 60s at 50Hz
<b>Inductance:</b>	< 6µH
<b>Standard value:</b>	E12 - 10R, 22R, 47R, 68R, 100R, 220R, 470R, 680R (other values available on request)

### Electrical Specifications

Type	Wattage (in free air)	Wattage (on heat sink)	Value Range
TFBR100	20	100	5R to 680R
TFBR300	40	300	5R to 680R
TFBR900	120	900	5R to 680R

### Derating Curve



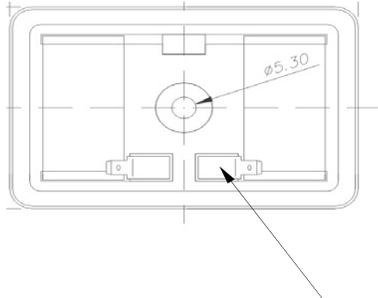
# TFBR

## Stainless Steel Power Resistors

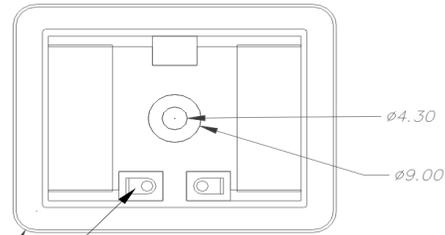
### DIMENSIONS

(mm)

TFBR100L

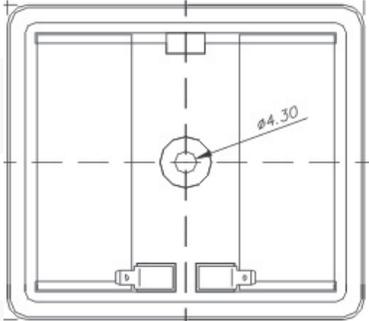


TFBR 100S

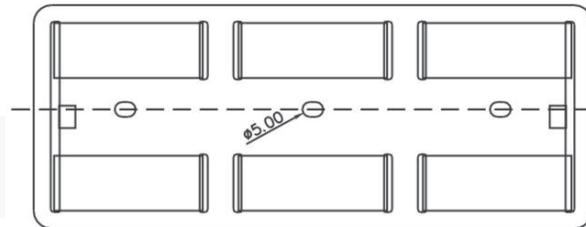


Soldering lead free  
Melting point 217°C

TFBR300



TFBR 900



Types	Length	Width	Thickness
TFBR100L	61.0	41.0	1.0
TFBR100S	55.0	43.0	1.0
TFBR300	70.0	61.0	1.0
TFBR900	188.0	75.0	1.0

Mounting Notes: It is recommended that the resistor is mounted to a heatsink with a surface finish of  $<6.3\mu$  with a flatness of  $<0.05\text{mm}$ .

Thermal grease (e.g. Dow Corning DC340 or equivalent) should also be applied between heatsink and resistor.

Torque: The resistor should be mounted using an M4/M5 screw head bolt, torqued to a maximum of 6Nm.

Cable specifications: AWG 20 - 0,519mm<sup>2</sup> wire Ø, UL style 1015, 105°C, 600V, 100mm length but other length available on request.

Push-on terminals: 5.5x2.8mm, 0.8 mm thick

### ORDERING INFORMATION

Standard Resistor:

Series, Resistance Value, Tolerance, Terminal

Terminal types:

F - 100mm Cable, L - Solder pad, M - Push-on terminals

e.g

**TFBR100S 10R K F**