TEH140P Series

140 Watt TO-247 Power Resistors for High Frequency and Pulse Loading Applications

The TEH140P offers completely encapsulated and insulated TO-247 package. The TEH140P is ideal for high-frequency and pulse-loading applications. The non inductive design of the TEH140P series is rated at 140W mounted to a heat sink.

FEATURES

- 140 Watt operating power
- TO-247 package configuration
- Clip (included) mounting simplifies attachment to heat sink
- Non-Inductive design

<u>APPLICATIONS</u>

- UPS
- Motor control
- Snubber circuits
- · Gate control
- · Bleeder resistor
- In-rush current protection

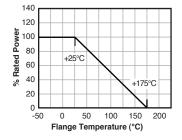


SPECIFICATIONS					
Resistance range	e TCR	Std.	tolerance		
0.2Ω - 10Ω	consult Ohm	ite	±1%		
>10Ω - 1ΜΩ	50ppm/°C		±1%		

CHARACTERISTICS

Resistance value	0.2Ω ≤ 1MΩ Momentary		2 tin
Resistance tolerance	±1% to ±10%; ±0.5% on special request for limited ohmic values	overload	mor con age
Derating	1.00 W/K (1.0 K/W). Without a heat sink, when in open air at 45°C, the TEH140P is rated for 4.5 W.	Load life	2,00 MIL
Temperature coef-	>10R: ±50 ppm/°C referenced to 25°C, ΔR taken at +105°C (other TCR	Moisture resistance	MIL
	on special request for limited ohmic values)	Thermal shock	MIL Con
Power rating	140W at 25°C bottom case temperature	Terminal strength	MIL
Maximum operating voltage	700 VDC	Vibration, high frequency	MIL
Dielectric strength	1800 VAC		
Insulation resistance	min. 10GΩ		
Working temperature	-55°C to +175°C	THIS	PRO
Lead material	tinned copper	WITH	PR

Derating



Weight ~4.2 g

Momentary overload	2 times rated power, but no more than 1.5 time max. continuous operating volt- age, last 5s	$\Delta R \leq \pm (0.3\% R + 0.001 \Omega)$
Load life	2,000 hours at rated power, MIL-R-39009D	$\Delta R \le \pm (1.0\% R + 0.001\Omega)$
Moisture resistance	MIL-Std202, method 106	$\Delta R \le \pm (0.5\% R + 0.001\Omega)$
Thermal shock	MIL-Std202, method 107, Cond. F	$\Delta R \le \pm (0.3\% R + 0.001\Omega)$
Terminal strength	MIL-Std202, method 211, Cond. A (pull test) 2.4 N	$\Delta R \le \pm (0.2\% R + 0.001\Omega)$
Vibration, high frequency	MIL-Std202, method 204, Cond. D	$\Delta R \le \pm (0.2\% R + 0.001\Omega)$

THIS PRODUCT IS DESIGNED FOR USE WITH PROPER HEATSINKING. Maximum

base plate temperature of the resistor must be monitored and kept within specified limits to establish the power rating. Best technique is to attach a thermocouple to the side of the base plate of the resistor. Temperature of plastic housing or heat sink cannot be used to establish rating of the resistor.

PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE TO IMPROVE RELIABILITY, FUNCTION, DESIGN OR OTHERWISE WITHOUT WARNING

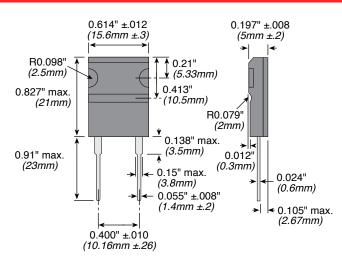
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TEH140P Series

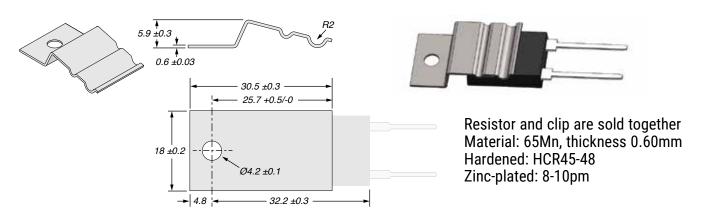
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DIMENSIONS

(in./mm)



CLIP



ORDERING INFORMATION

