

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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TCH Series

35 Watt T0220 Package Thick Film Power

Ohmite's TCH35 TO220 package resistor provides 35W of steady state power when properly used in today's well defined heat sink applications.

These very low induction resistors are built under proprietary processes that deliver more power handling capability than other TO220 package resistors of similar size.

Standard terminal forms are provided for manual or automatic insertion.

A single screw mounting tab connects to the heat sink and should be accompanied by the use of a thermal compound. The TCH35 Series offers a low thermal resistance to the heat sink of <4.28°C/W.



FEATURES

- 35W Power Rating @ 25°C
- Very Low Inductance Design
- Single Screw Mounting
- Low Thermal Resistance to Heat Sink @ RTH<4.28°C/W
- Resistance Element is Electrically Insulated from Metal Heat Sink Mounting Tab

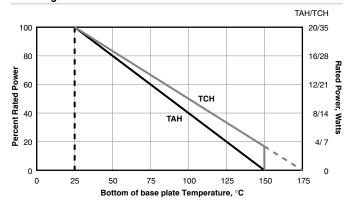
APPLICATIONS

- Switching Power Supplies
- Snubbers
- High Frequency
- Voltage Regulation
- Low Energy Pulse Loading

	CHARACI	ERISTICS
Resistance Range		Test C
Resistance Tolerance:	± 5% standard; ± 1% available on request	Thermal N
Temperature Coefficient	Referenced to 25°C, ΔR taken at +105°C 10Ω and above: ±50 ppm°C	Shock 1
Odemoleni	For under 10Ω: 0R6 - 9R9: 100PPM	High Freq N Vibration 2
	0R4 - 0R59: 150PPM 0R2 - 0R39: 250PPM 0R1 - 0R19: 500PPM 0R05 - 0R09: 1000PPM	Terminal N Strength 2
Max. Operating Voltage	350V	Moisture N Resistance 1
Dielectric Strength	1800 VAC	Derating
Insulation Resistance	10GΩ min.	100
Momentary Overload	2x rated power for 5 seconds as long as the applied voltage \leq 1.5 times the continuous operating voltage, where Δ R \pm (0.3% + 0.01 Ω) max	Dercent Hated Power 40 90 90 90 90 90 90 90 90 90 90 90 90 90
Terminal Material	Copper	Bate 40
Terminal Plating	Lead Free Solder (97% Tin, 3% Silver)	rcent
Maximum Torque	0.9 Nm	a 20
Power Rating	35 Watts @ 25°C case temperature; see derating curve, below	0 25
Working Temperature Range	-55°C to +175°C	ı
Solder Process	The TCH35 cannot exceed 260°C for more than 10 seconds during soldering process	

Test	Condition	Result AR
Load Life	MIL-R-39009, 2000 Hours @ Rated Pwr	±(1.0% +0.01) Ω
	MIL-R-STD-202, Method 107, Cond. F	\pm (0.3% +0.01) Ω max
• .	MIL-R-STD-202, Method 204, Cond. D	±(0.2% +0.01) Ω max
	MIL-R-STD-202, Method 211, Cond. A (Pull Test) 2.4N	\pm (0.2% +0.01) Ω max
Moisture Resistance	MIL-R-STD-202, Method 106	± (0.5% +0.01) Ω max

Derating



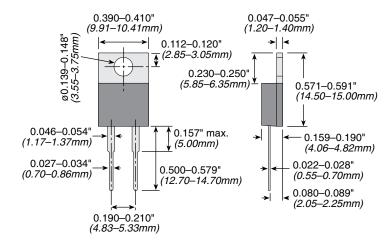
(continued)

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DIMENSIONS

(in./mm)



ORDERING INFORMATION

Standard Part Numbers



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TCH35P100RJE	TCH35P220RJE	TCH35P33R0JE	TCH35P510RJE	TCH35PR200JE		
TCH35P10K0JE	TCH35P22R0JE	TCH35P390RJE	TCH35P51R0JE	TCH35PR220JE		
TCH35P10R0JE	TCH35P240RJE	TCH35P39R0JE	TCH35P5K10JE	TCH35PR240JE		
TCH35P150RJE	TCH35P24R0JE	TCH35P3K30JE	TCH35P5R10JE	TCH35PR330JE		
TCH35P15R0JE	TCH35P2K00JE	TCH35P3K90JE	TCH35P5R60JE	TCH35PR390JE		
TCH35P1K00JE	TCH35P2K20JE	TCH35P3R30JE	TCH35P750RJE	TCH35PR470JE		
TCH35P1K50JE	TCH35P2K40JE	TCH35P3R90JE	TCH35P75R0JE	TCH35PR510JE		
TCH35P1R00JE	TCH35P2R00JE	TCH35P470RJE	TCH35P7K50JE	TCH35PR560JE		
TCH35P1R50JE	TCH35P2R20JE	TCH35P47R0JE	TCH35P7R50JE	TCH35PR750JE		
TCH35P200RJE	TCH35P2R40JE	TCH35P4K70JE	TCH35PR100JE	TCH35PR050JE		
TCH35P20R0.JF	TCH35P330RJF	TCH35P4R70.JF	TCH35PR150JF			

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.

