imall

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!



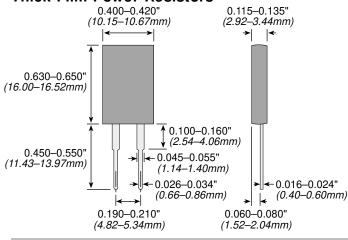
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TAH20 Series

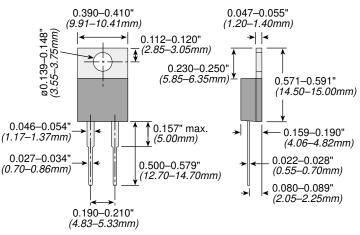
20 Watt TO220 Style Thick Film Power Resistors



PERFORMANCE DATA							
Load Life	MIL-R-39009, 2000 Hours @ Rated Pwr	$\Delta R = \pm (1.0\% + 0.001) \Omega$					
Thermal Shock	MIL-R-STD-202, Method 107, Cond. F	$\Delta R = \pm (0.3\% + 0.001) \Omega max$					
High Freq Vibration	MIL-R-STD-202, Method 204, Cond. D	$\Delta R = \pm (0.2\% + 0.001) \Omega max$					
Terminal Strength	MIL-R-STD-202, Method 211, Cond. A (Pull Test) 2.4N	$\Delta R = \pm (0.2\% + 0.001) \ \Omega \ max$					
Moisture Resistance	MIL-R-STD-202, Method 106	$\Delta R = \pm (0.5\% + 0.01) \Omega \text{ max}$					

TCH35 Series

35 Watt TO220 Style Thick Film Power Resistors



PERFORMANCE DATA							
Load Life	MIL-R-39009, 2000 Hours @ Rated Pwr	$\Delta R = \pm (1.0\% + 0.01) \ \Omega$					
Thermal Shock	MIL-R-STD-202, Method 107, Cond. F	$\Delta R = \pm (0.3\% + 0.01) \Omega \text{ max}$					
High Freq Vibration	MIL-R-STD-202, Method 204, Cond. D	$\Delta R = \pm (0.2\% + 0.01) \Omega max$					
Terminal Strength	MIL-R-STD-202, Method 211, Cond. A (Pull Test) 2.4N	$\Delta R = \pm (0.2\% + 0.01) \Omega \text{ max}$					
Moisture Resistance	MIL-R-STD-202, Method 106	$\Delta R = \pm (0.5\% + 0.01) \Omega max$					

The TAH20 is a completely encapsulated thick film resistor in the TO220 package outline. Rated for 20 watts @ 25°C case temperature, these resistors are electrically isolated, and molded in a high temperature case.

Designed for heat sink mounting, the symmetrical package is ready for use with snap-on style heat sinks (we recommend use of thermal grease). The TAH20 Series is very low intuction, and available in a wide range of resistance values in standard 5% tolerance, and 1% available by special order.

FEATURES

- 20 Watt Power Rating at 25°C Case Temperature
- High Pulse Tolerant Design
- Quick-snap Molded Package
- Very Low Inductance Design
- Resistor Package Electrically Isolated from Heat Sink
- Low Thermal Resistance to Heat Sink @ RTH<6.25°C/W
- Tube Packaging Available

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

These very low intuction resistors are built under proprietary processes that deliver 75% more power handling capability than other TO-220 package resistors of similar size.

Standard lead 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

- Frequency Conversion
- High Frequency Balancing
- Snubbers

SPECIFICATIONS

Electrical

Resistance Range: 0.05Ω to $10K\Omega$, other values available upon request

Tolerance: ±5% stock 1% Available on request

Temperature Coefficient:

Referenced to 25°C, ΔR taken at +105°C;

1 to 10Ω : ±(100ppm+0.002Ω)/°C 10Ω & up: ±50ppm/°C

Max Operating Voltage: 350V

- Dielectric Strength: 1,800 VAC
- Power Rating: 20W @ 25°C Case Temperature. See derating curve

Insulation Resistance: 10GΩ min.

Momentary Overload:

2x rated power for 5 seconds where applied voltage \leq 1.5 times max. operating voltage. $\Delta R \pm$ (0.3% + 0.001 Ω) max.

Lead Material: Tinned Copper Mounting: Requires the use of a

snap-on style heat sink. A thermal compound should be properly applied.

APPLICATIONS

Switching Power Supplies

- Snubbers
- High Frequency
- Voltage Regulation
- Low Energy Pulse Loading

SPECIFICATIONS

Electrical

- **Resistance Range:** 0.1Ω to $10K\Omega$
- (higher values on request subject to derating)

Resistance Tolerance:

± 5% standard

± 1% available on request Temperature Coefficient:

Referenced to 25°C, ∆R taken at +105°C

 10Ω and above ±50 ppm°C

1 \Omega to 10 Ω ±(100 ppm + 0.002 Ω)/°C

Max. Operating Voltage: 350V

Dielectric Strength: 1800 VAC

Insulation Resistance: $10G\Omega$ min.

- Momentary Overload: 2x rated power for 5 seconds as long as the applied voltage \leq 1.5 times the continuous operating voltage,
- where $\Delta R \pm (0.3\% + 0.01\Omega)$ max

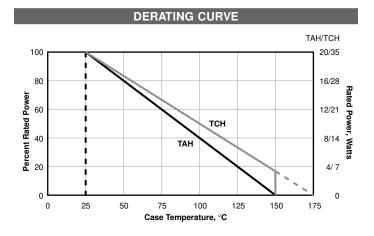
Lead Material: Tinned Copper Maximum Torque: 0.9 Nm

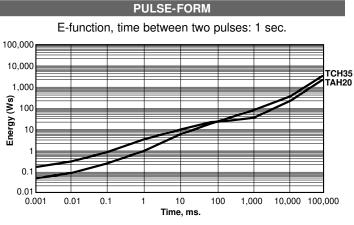
Power Rating: 35 Watts @ 25°C Case Temperature. See Derating Curve

Working Temperature Range: -55°C to +175°C

TAH20/TCH35 Series

20 Watt & 35 Watt TO220 Series Thick Film Power Resistors





$\begin{array}{c} \textbf{ORDERING INFORMATION} \\ \textbf{T C H 3 5} \\ \textbf{Series} \\ TCH35 = 35W \\ TAH20 = 20W \end{array} \begin{array}{c} \textbf{Package Code} \\ \textbf{P a ckage Code} \\ \textbf{P a ckage Code} \\ \textbf{J a b ckage Code} \\ \textbf{J$

STANDARD VALUES									
E24 stand	ard values (+2	25 & 50), 1% a	nd 5% toleran	се					
	0.10	1.0	10	100	1,000	10,000			
	0.11	1.1	11	110	1,100				
	0.12	1.2	12	120	1,200				
	0.13	1.3	13	130	1,300				
	0.15	1.5	15	150	1,500				
	0.16	1.6	16	160	1,600				
	0.18	1.8	18	180	1,800				
	0.20	2.0	20	200	2,000	20,000			
	0.22	2.2	22	220	2,200				
	0.24	2.4	24	240	2,400				
	0.25	2.5	25	250	2,500				
	0.27	2.7	27	270	2,700				
	0.30	3.0	30	300	3,000				
	0.33	3.3	33	330	3,300				
	0.36	3.6	36	360	3,600				
	0.39	3.9	39	390	3,900				
	0.43	4.3	43	430	4,300				
	0.47	4.7	47	470	4,700				
0.050	0.50	5.0	50	500	5,000				
0.051	0.51	5.1	51	510	5,100				
0.056	0.56	5.6	56	560	5,600				
0.062	0.62	6.2	62	620	6,200				
0.068	0.68	6.8	68	680	6,800				
0.075	0.75	7.5	75	750	7,500				
0.082	0.82	8.2	82	820	8,200				
0.091	0.91	9.1	91	910	9,100				

Consult factory for current stock disposition.