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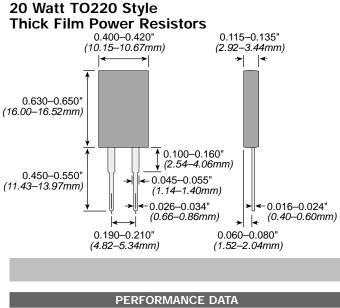
Ohmite TAH20PR050J

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Ohmite: Excellent Integrated System Limited Datasheet of TAH20PR050J - RES 0.05 OHM 20W 5% TO220 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

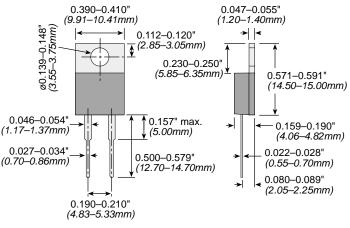
TAH20 Series



	PERFORMANCE DATA	1
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	$\Delta R = \pm (0.3\% + 0.001) \Omega \text{ max}$
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) Ω max
High Freq Vibration	MIL-R-STD-202, Method 204, Cond. D	$\Delta R = \pm (0.2\% + 0.01) \Omega \text{ max}$
Terminal Strength	MIL-R-STD-202, Method 211, Cond. A (Pull Test) 2.4N	$\Delta R = \pm (0.2\% + 0.01) \Omega \max$
Moisture Resistance	MIL-R-STD-202, Method 106	$\Delta R = \pm (0.5\% + 0.01) \Omega \text{ max}$

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

APPLICATIONS

- Frequency Conversion
- High Frequency Balancing
- Snubbers

SPECIFICATIONS

Electrical

- Resistance Range: 0.05Ω to 10K Ω , other values available upon request
- Tolerance: ±5% stock 1% Available on request
- Temperature Coefficient:
- Referenced to 25°C,
- ∆R taken at +105°C;
- 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:** 10GQ min.

Momentary Overload:

APPLICATIONS

High Frequency

Voltage Regulation

SPECIFICATIONS

Resistance Tolerance:

± 1% available on request

Referenced to 25°C, ΔR taken at

1Ω to 10Ω ±(100ppm + 0.002Ω)/°C

Max. Operating Voltage: 350V

Dielectric Strength: 1800 VAC

Temperature Coefficient:

10Ω and above ±50 ppm°C

Snubbers

Electrical

to derating)

+105°C

± 5% standard

Switching Power Supplies

Low Energy Pulse Loading

Resistance Range: 0.1Ω to $10K\Omega$

(higher values on request subject

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

Lead Material: Tinned Copper Mounting: Requires the use of a snap-on style heat sink. A thermal compound should be properly applied.

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

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

Standard lead forms are

A single screw mounting tab connects to the heat sink 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

Insulation Resistance: 10GΩ min. Momentary Overload: 2x rated power for 5 seconds as long as the applied voltage ≤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

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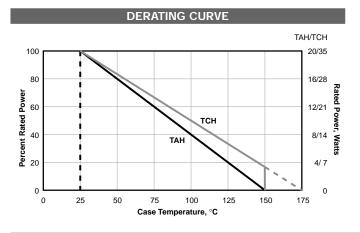
package resistors of similar size

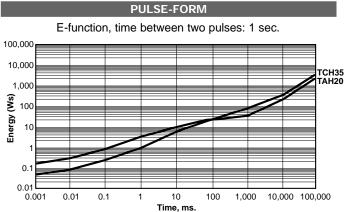
provided for manual or automatic insertion. and should be accompanied



TAH20/TCH35 Series

20 Watt & 35 Watt TO220 Series Thick Film Power Resistors





$\begin{array}{c} \textbf{ORDERING INFORMATION} \\ \textbf{T C H 3 5} \\ \textbf{Series} \\ TCH35 = 35W \\ TAH20 = 20W \end{array} \overrightarrow{\textbf{P}} \begin{array}{c} \textbf{Package Code} \\ \textbf{P 1 0 R 0} \\ \textbf{F} \\ \textbf{T O R 0} \\ \textbf{J} \\ \textbf{F} \\ \textbf{F} \\ \textbf{F} \\ \textbf{Series} \\ \textbf{Series} \\ \textbf{Chm Value} \\ \textbf{Example:} \\ \textbf{2R40} = 2.4 \ \text{Ohms} \\ \textbf{2K40} = 2400 \ \text{Ohms} \end{array}$

		STAP	IDARD V	ALUES		
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.