Excellent Integrated System Limited

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Ohmite TDH35PR100J

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

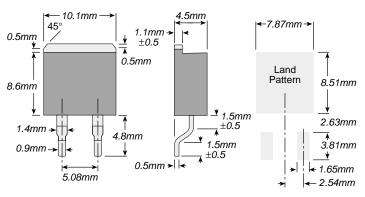
Distributor of Ohmite: Excellent Integrated System Limited

Datasheet of TDH35PR100J - RES SMD 0.1 OHM 5% 35W DPAK

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TDH35 Series

TO220 35 Watt Thick Film Power Resistors for Surface Mount, Including Metal Tab



T0220 style power package for surface mounting applications; 35W power rating at 25°C case temperature

Soldering note: During surface mount soldering the soldering temperature profile must not cause the metal tab of this device to exceed 245°C!

PERFORMANCE CHARACTERISTICS		
Derating	100% @ 25°C to 0% @ 150°C curve referenced to case temperature	
Dielectric Strength	1,800VAC 0.9Nm	
Max. Mounting Torque		
Operating Temperature Range	-55°C to +150°C	
Temperature Coefficient	10Ω and above, \pm 50ppm/°C, referenced to 25°C, Δ R taken at +105°C. Between 1Ω and 10Ω, \pm (100ppm+0.002Ω)/°C, referenced to 25°C. Δ R taken at +105°C.	

TEST DATA		
Load Life	(MIL-R-39009, 2,000 hours	$\Delta R \pm (1.0\% + 0.01\Omega)$
Moisture Resistance	(MIL-Std-202, Method 106)	$\Delta R = (0.5\% +0.01\Omega)$ max.
Short Time Overload	(2 times rated power with applied voltage not to exceed 1.5 times maximum continuous operating voltage for 5 seconds)	$\Delta R \pm (0.3\% + 0.01\Omega)$ max.
Thermal Shock	(MIL-Std-202, Method 107, Cond. F)	$\Delta R = (0.3\% + 0.01\Omega)$ max.
Terminal Strength	(MIL-Std-202, Method 211, Cond. A (Pull Test) 2.4N)	$\Delta R = (0.2\% + 0.01\Omega)$ max.
Vibration, High Frequency	(MIL-STD-202, method 211, cond. A (pull test) 2.4N)	$\Delta R = (0.2\% + 0.01\Omega)$ max.

FEATURES

- 35 Watt power rating at 25°C
- SMD TO-220 package configuration
- Heat resistance to cooling plate: Rth <4.28 °K/W
- A molded case for environmental protection.
- Resistor element is electrically insulated from the metal sink tab.

SPECIFICATIONS

Material

Lead Material: German Silver (Alpacca)

Electrical

Resistance Range: 0.1Ω to $10K\Omega$ other values on request

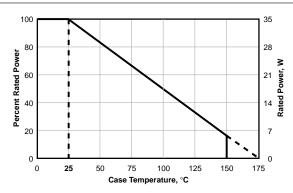
Tolerance: ±1% to ±10% (0.5% on request)

Max. Operating Voltage: 350V Insulation Resistance: $10G\Omega$ min.

Power Rating: Depends upon case temperature. See Derating Curve.

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

DERATING



Derating (thermal resistance): 0.23W/°K (4.28°K/W). The case temperature is to be used for purposes of establishing the applied power limit. The case temperature measurement must be made with a thermocouple contacting the center of the component mounted on the designed heat sink. Thermal grease should be applied propperly.

ORDERING INFORMATION $\begin{array}{c|cccc} \textbf{T} & \textbf{D} & \textbf{H} & \textbf{3} & \textbf{5} & \textbf{P} & \textbf{R} & \textbf{1} & \textbf{0} & \textbf{0} & \textbf{J} \\ \hline \textbf{Style} & \textbf{Ohms} & \textbf{Tolerance} \\ & \textbf{Ohms} & \textbf{Example:} & \textbf{F} & = 1\% \\ & \textbf{Example:} & \textbf{R} & = 100 & 0.10 \\ & \textbf{1} & \textbf{R} & \textbf{00} & = 1.0 \\ & \textbf{1} & \textbf{00} & \textbf{0} & \textbf{0} \\ & \textbf{1} & \textbf{0} & \textbf{0} & \textbf{0} \\ & \textbf{1} & \textbf{0} & \textbf{0} & \textbf{0} \\ \end{array}$

