

KWK RESISTORS INDIA



THICK FILM RESISTORS TO-247 PACKAGE - KTR100 - 100W

Features:

- Operating power of up to 100W.
- Simplified attachment to heatsink with a single screw.
- Non-Inductive construction.
- RoHS Compliant.
- UL 94 V-0 compliant material.
- Provides superior environmental protection due to fully molded construction.
- High electrical insulation from heat sink.
- High pulse tolerant design.



PERFORMANCE CHARACTERISTICS

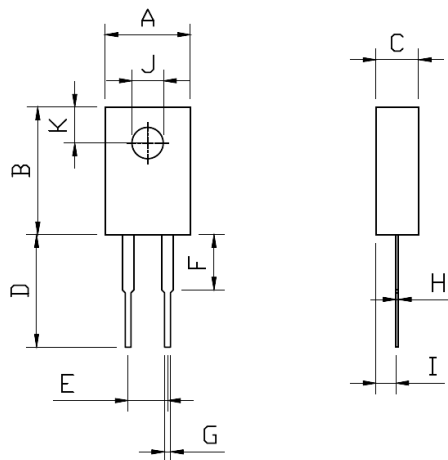
Characteristics	Specification	Condition
Power Rating	100W	Bottom Case temperature to be maintained 25°C
Derating	100% up to 25°C 80% up to 50°C 0% at 175°C Bottom case temp.	
Resistance Range	R05 to 1M	
Tolerance	±1 % to ±10 %	
Temperature Co-efficient	±50 ppm/°C Standard ±100 ppm/°C Standard	>10Ω >10Ω-10KΩ
Insulation Voltage	1800 VAC	
Insulation Resistance	> 10 GΩ @1000V DC	No Breakdown
Operating temp	-55°C to +175°C	
Maximum operating voltage	700 V	
Short Time Overload	1.5 x rated power with applied voltage not to exceed 1.5x maximum continuous operating voltage for 5 Sec.	$\Delta R < \pm(0.5\% + 0.0005\Omega)$
Moisture Resistance	-10°C to +65°C, RH>90%, cycle 240 hours	$\Delta R < \pm(0.5\% + 0.0005\Omega)$
Thermal Shock	-65°C to -175°C, 100 cycles	$\Delta R < \pm(0.5\% + 0.0005\Omega)$
Endurance	Rated power, 2,000 hours	$\Delta R < \pm(1.0\% + 0.0005\Omega)$
Terminal Strength	(Pull Test) 2.4N	$\Delta R < \pm(0.2\% + 0.0005\Omega)$
Vibration, high frequency	20g peak	$\Delta R < \pm(0.4\% + 0.0005\Omega)$
Inductance (serial)	Typical 20nH	Measuring frequency 10KHz
Torque	0.7 Nm to 0.9 Nm	
Lead material	Tinned copper	
Weight	1.4g	

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MECHANICAL DIMENSIONS



All dimensions are in mm

A	B	C	D	E	F	G	H	I	J	K
15.49-16.01	20.4-20.96	4.69-5.21	13.21-15.75	9.9-10.42	2.54-4.06	1.42-1.62	0.55-1.07	2.15-2.67	3.53-3.73	5.07-5.59

ORDERING DETAILS

KTR100 R T T0247

KTR100

- Series

R

- Resistance Value (e.g.: 1R=1Ω; 10R2=10.2Ω; 1K=1kΩ; 1M=1MΩ)

T

- Tolerance Code (±1% - F, ±2% - G, ±5% - J, ±10% - K)

Example: KTR100 10R J -100W 10R 5% TO-247 Package

Disclaimer: Product specifications, data and dimensions are subject to change without any prior notice to improve performance, reliability and design.

Please feel free to contact us for any assistance required to choose the right solution. We are also able to design Custom Resistive Solutions.

KWK Resistors India Pvt. Ltd.

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**BUREAU
VERITAS**

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