

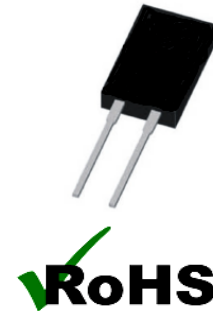
KWK RESISTORS INDIA



THICK FILM RESISTORS TO-220 PACKAGE - KTR20 - 20W

Features:

- Operating power of up to 20W.
- Snap-on style heat sink for easy mounting .
- 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

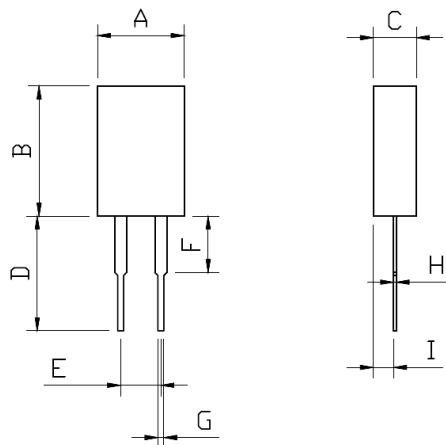
Characteristics	Specification	Condition
Power Rating	20W	Bottom Case temperature to be maintained 25°C
Derating	100% up to 25°C 80% up to 50°C 0% at 150°C Bottom case temp.	
Resistance Range	R05 to 1M	
Tolerance	±1 % to ±10 %	Lower tolerances (±0.5 %) will be on special request for limited ohmic values
Temperature Co-efficient	±100 ppm/°C Standard ±50 ppm/°C Standard	(1Ω < 10Ω) (≥10Ω)
Insulation Voltage	1800 VAC.	
Insulation Resistance	> 10 GΩ @1000V DC	No Breakdown
Operating temp	-55°C to +150°C	
Maximum operating voltage	350 V	
Short Time Overload	2x rated power with applied voltage not to exceed 1.5x maximum continuous operating voltage for 5 Sec.	ΔR±(0.3%R+0.001Ω) max
Moisture Resistance	-10°C to +65°C, RH>90%, cycle 240 hours	ΔR±(0.5%+0.01Ω) max
Thermal Shock	-65°C to -150°C,100 cycles	ΔR±(0.3%+0.01Ω) max
Endurance	Rated power, 2,000 hours	ΔR±(1.0%+0.01Ω) max
Terminal Strength	(Pull Test) 2.4N	ΔR±(0.2%+0.01Ω) max
Vibration, high frequency	20g peak	ΔR±(0.2%+0.01Ω) max
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
10.5-10.67	16-16.52	2.92-3.44	11.43-13.97	4.82-5.34	2.54-4.06	0.66-0.86	0.40-0.60	1.52-2.04

ORDERING DETAILS

KTR20 R T T0220

KTR20 - 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: KTR20 10R J -20W 10R 5% TO-220 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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VERITAS**

KWKC40 R00