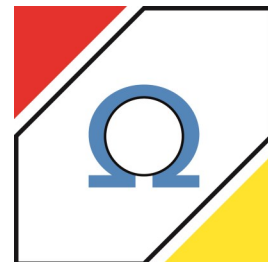


KWK RESISTORS INDIA



THICK FILM RESISTORS- HIGH POWER- KTF SERIES - 600W

The Thick film resistor delivers a reliable power of 600W to a variety of power conditioning, power transmission and power control application. Applications include variable speed drives, power supplies, robotics, motor control and other control devices.

Features:

- 600W operating power.
- Dielectric strength up to 12KV.
- Non-Inductive Version.
- RoHS Compliance.
- Material in accordance with UL 94 V-0.
- Contacts allow for easy load connection with M5 Screw.
- Encapsulated with a special resin filled epoxy casing with a large creepage distance to mass, large air distance between terminals, and a high insulation resistance.



PERFORMANCE CHARACTERISTICS

Characteristics	Specification	Condition
Continuous Power	600W	Bottom Case temperature to be maintained <85°C
Derating	120% up to 65°C 100% up to 85°C 0% at 150°C Bottom case temp.	
Resistance Range	R10 to 1M	
Tolerance	±5 % to ±10 % ±1 % to ±2 %	Lower tolerances (1% to 2%) will be on special request for specific resistance values with de-rated power.
Temperature Co-efficient	±300 ppm/°C Standard ±150 ppm/°C Standard	(0.1Ω ≤ 1MΩ) (0.25Ω ≤ 1MΩ)
Insulation Voltage	6kV AC rms/50Hz for 1 min.	Leakage Current <10mA
Insulation Resistance	> 10 GΩ @1000V DC	No Breakdown
Operating temp	-55°C to +155°C	
Partial Discharge	4kV AC rms According to IEC60270	<10pC
Single Shot voltage	up to 12 kV norm wave (1.5/50 μsec)	
Creeping distance	> 42 mm	
Air distance	> 14 mm	
Inductance	≥ 80 nH (typical)	measuring frequency 10 kHz
Capacity/mass	≥ 140 pF (typical)	measuring frequency 10 kHz
Capacity/parallel	≥ 40 pF (typical)	measuring frequency 10 kHz
Short Time Overload	1000W @70°C for 10sec	ΔR≤±(0.3%R+0.001Ω)
Endurance	at rated power for 1000h, Temp. of bottom plate centre ≤ 85°C	ΔR≤±(0.5%R+0.001Ω)
Wet Resistance	40°C, RH≥95%, 56 days	ΔR≤±(0.25%R+0.001Ω)
Thermal Shock	-55°C/125°C, 5 cycles	ΔR≤±(0.3%R+0.001Ω)

KWK RESISTORS INDIA

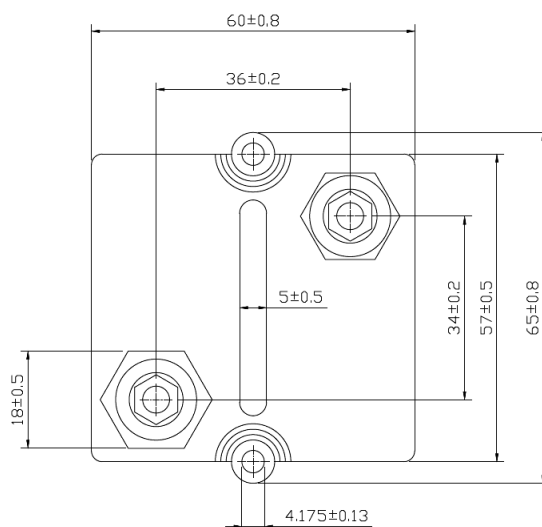


THICK FILM RESISTORS- HIGH POWER- KTF SERIES - 600W

PERFORMANCE CHARACTERISTICS

Characteristics	Specification	Condition
Vibration	50Hz, amplitude 2mm for 4hrs;	$\Delta R \leq \pm(0.1\%R + 0.001\Omega)$
Terminal	M5 Bolts, Max. Torque 2Nm	
Heatsink Flatness	0.05mm Max	
Heatsink Surface Finish	6.3 μ m Max	
Thermal Grease	Required	
Mounting	M4 Bolts, Max. Torque 1.8Nm	
Weight	120g	

MECHANICAL SPECIFICATION



ORDERING DETAILS

KTF600 R T

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

T - Tolerance Code ($\pm 1\%$ - F, $\pm 2\%$ - G, $\pm 5\%$ - J, $\pm 10\%$ - K)

Example: KTF600 10R J - KTF 600W 10R 5%.

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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