

KWK RESISTORS INDIA



KCF SERIES - CARBON FILM RESISTORS - AXIAL TYPE

The KCF series is a range of high stability, high reliability, low priced and multi coated carbon film resistors. A wide range of resistance values are available in this series of Resistors. These resistors finds applications in various electronic equipment.

Small sized Carbon film resistors, KCF(S), are also available in this series.

Features:

- Good electrical stability, reliability and mechanically very rigid.
- Wide range of resistance values available.
- Multi coated.
- Small sizes are available.



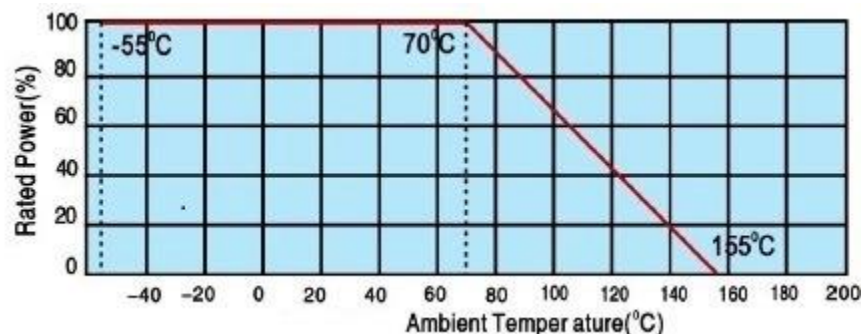
ELECTRICAL SPECIFICATIONS

Characteristics	Condition	Compliance
Tolerance		±2%, ±5%, ±10%
Insulation Resistance		>10 ⁴ MΩ
Change in resistance Short time overload Load Life	- @70°C -	± (1% + 0.05Ω) R<100KΩ ±(2%+ 0.05Ω), R≥100KΩ ±(3%+ 0.05Ω)
Temperature Cycling Moisture Load Life	- -	± (1% + 0.05Ω) R<100KΩ ±3%, R≥100KΩ ±5%
Resistance to soldering heat		± (0.5% + 0.05Ω)
Solderability (where applicable)		>95%

TEMP. COEFFICIENT OF RESISTANCE

Series\T.C.R	±450PPM/°C	-700PPM/°C	-1000PM/°C	-1300PPM/°C
KCF1/6W, KCF(S)1/4W	<47KΩ	51KΩ ~ 100KΩ	110KΩ ~ 330KΩ	>360KΩ
Above KCF1/4W,KCF(S)1/2W	<100KΩ	110KΩ ~ 1MΩ	1.1MΩ ~ 2.2MΩ	>2.4MΩ

POWER DERATING CURVE

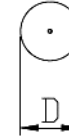
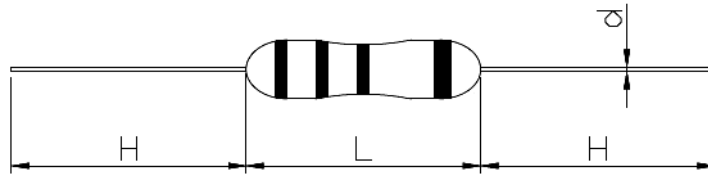


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RESISTANCE RANGE AND DIMENSIONAL DETAILS



Note: All dimension are in mm.

Series	Rated Power (W)	Max Working Voltage (V)	Max Overload Voltage (V)	Dielectric Withstanding Voltage (V)	Resistance Range	L	D	d	H	
Normal Size	KCF1/6	0.16	150	300	300	1Ω-10MΩ	3.2±0.2	1.8±0.2	0.40±0.02	25±3
	KCF1/4	0.25	250	500	500	0.1Ω-10MΩ	6.5±0.5	2.3±0.3	0.43±0.02	25±3
	KCF1/2	0.5	350	700	500	0.1Ω-10MΩ	9.0±1.0	3.2±0.5	0.50±0.02	25±3
	KCF1	1	500	1000	1000	0.1Ω-10MΩ	12.0±1.0	4.5±0.5	0.65±0.02	25±3
	KCF2	2	500	1000	1000	0.1Ω-10MΩ	15.5±1.0	5.0±1.0	0.72±0.02	25±3
	KCF3	3	600	1100	1000	0.1Ω-10MΩ	17.5±1.0	6.0±1.0	0.72±0.02	27±3
	KCF5	5	700	1200	1000	0.1Ω-10MΩ	24.5±1.0	8.5±1.0	0.72±0.02	27±3
Small Size	KCF(S)1/4	0.25	200	400	400	0.1Ω-10MΩ	3.2±0.2	1.8±0.2	0.40±0.02	25±3
	KCF(S)1/2	0.5	300	600	500	0.1Ω-10MΩ	6.5±0.5	2.3±0.3	0.40±0.02	25±3
	KCF(S)1	1	400	800	700	0.1Ω-10MΩ	9.0±1.0	3.2±0.5	0.50±0.02	25±3
	KCF(S)2	2	500	1000	1000	0.1Ω-10MΩ	12.0±1.0	4.5±0.5	0.65±0.02	25±3
	KCF(S)3	3	500	1000	1000	0.1Ω-10MΩ	15.5±1.0	5.0±1.0	0.72±0.02	25±3
	KCF(S)5	5	700	1100	1100	0.1Ω-10MΩ	17.5±1.0	6.0±1.0	0.72±0.02	27±3

ORDERING DETAILS

KCFseries R T P

KCFseries - Series Model #
R - Resistance Value (E-24,12series e.g.: 0R12=0.12Ω, 120R=120Ω, 1K2=1.2kΩ, 12M=12MΩ)
T - Tolerance Code (±2% -G, ±5% -J, ±10% -K)
P - Packaging (S.P-Bulk (Straight), M-Bulk M-Form series (Horizontal Forming), U-Bulk U-Form series (Vertical Forming), T/R-Tape on reel packing, Txx- Boxed (52,63,73,83mm width taping), U/T—Radial packing).

Example: KCF1/4 10K J T63— KCF1/4 10K 5% with T63 packaging

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.

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