

KWK RESISTORS INDIA



KMF SERIES - PRECISION METAL FILM RESISTORS - AXIAL TYPE

The KMF series is a range of high stability, high reliability, and precision Metal Film Resistors. This series of resistors are features with low noise and low temperature coefficient. A wide range of resistance values are available in this series of Resistors. These resistors are suitable for *Precision electronics applications*.

Small sized precision metal film resistors, KMF(S), and super small sized precision metal film resistors, KMF(SS), are also available in this series.

Features:

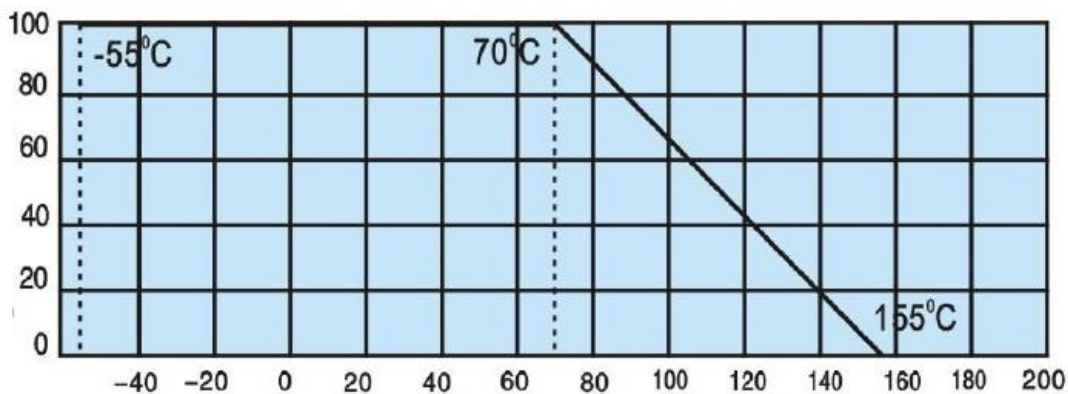
- Low Noise.
- Low temperature coefficient.
- Wide range of resistance values available.
- Good electrical stability and reliability
- Multi coated.
- Small and super small sizes are available.



ELECTRICAL SPECIFICATIONS

Characteristics	Condition	Compliance
Tolerance		$\pm 0.1\%$, $\pm 0.25\%$, $\pm 0.5\%$, $\pm 1\%$, $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
Temperature Coefficient		± 50 , ± 100 PPM/ $^{\circ}\text{C}$
Insulation Resistance		$>10^4$ M Ω
Change in resistance		
a. Short time overload	-	$\pm (0.5\% + 0.05\Omega)$
b. Load Life	@70 $^{\circ}\text{C}$	$\pm (2\% + 0.05\Omega)$
c. Temperature Cycling	-	$\pm (1\% + 0.05\Omega)$
d. Moisture Load Life	-	$\pm (1.5\% + 0.05\Omega)$
e. Resistance to soldering heat	-	$\pm (0.5\% + 0.05\Omega)$
Solderability (where applicable)		$>95\%$

POWER DERATING CURVE

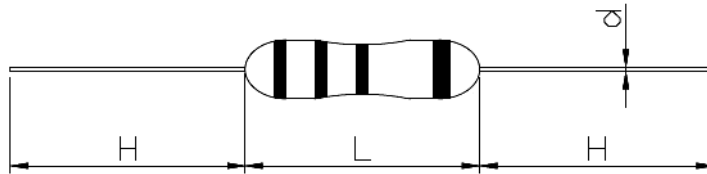


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RESISTANCE RANGE AND DIMENSIONAL DETAILS



Note: All dimension are in mm.

Series		Rated Power (W)	Max Working Voltage (V)	Max Overload Voltage (V)	Dielectric With-standing Voltage (V)	Resistance Range	L	D	d	H
Normal Size	KMF1/6	0.16	200	400	300	0.1Ω-22MΩ	3.2±0.2	1.8±0.2	0.40±0.02	25±3
	KMF1/4	0.25	250	500	500	0.1Ω-22MΩ	6.5±0.5	2.3±0.3	0.43±0.02	25±3
	KMF1/2	0.5	350	700	500	0.1Ω-22MΩ	9.0±1.0	3.2±0.5	0.50±0.02	25±3
	KMF1	1	400	800	500	0.1Ω-22MΩ	12±1.0	4.5±0.5	0.65±0.02	25±3
	KMF2	2	500	1000	500	0.1Ω-22MΩ	15.5±1.0	5.0±1.0	0.72±0.02	23±3
	KMF3	3	750	1400	600	0.1Ω-22MΩ	17.5±1.0	6±1.0	0.72±0.02	27±3
	KMF5	5	900	1400	750	0.1Ω-22MΩ	24.5±1.0	8.5±1.0	0.75±0.02	27±3
Small Size	KMF(S)1/4	0.25	200	400	300	0.1Ω-22MΩ	3.2±0.2	1.8±0.2	0.40±0.02	25±3
	KMF(S)1/2	0.5	250	500	500	0.1Ω-22MΩ	6.5±0.5	2.3±0.3	0.43±0.02	25±3
	KMF(S)1	1	350	700	500	0.1Ω-22MΩ	9.0±1.0	3.2±0.5	0.50±0.02	25±3
	KMF(S)2	2	400	800	700	0.1Ω-22MΩ	12±1.0	4.5±0.5	0.65±0.02	25±3
	KMF(S)3	3	500	1000	700	0.1Ω-22MΩ	15.5±1.0	5.0±1.0	0.72±0.02	23±3
	KMF(S)5	5	750	1200	700	0.1Ω-22MΩ	17.5±1.0	6±1.0	0.72±0.02	27±3
Super Small Size	KMF(SS)1/2	0.5	250	500	500	0.1Ω-1MΩ	3.2±0.2	1.8±0.2	0.40±0.02	25±3
	KMF(SS)1	1	350	700	500	0.1Ω-1MΩ	6.5±0.5	2.3±0.3	0.43±0.02	25±3
	KMF(SS)2	2	400	800	500	0.1Ω-1MΩ	9.0±1.0	3.2±0.5	0.50±0.02	25±3
	KMF(SS)3	3	500	1000	500	0.1Ω-1MΩ	12±1.0	4.5±0.5	0.65±0.02	25±3
	KMF(SS)5	5	750	1200	600	0.1Ω-1MΩ	15.5±1.0	5.0±1.0	0.72±0.02	27±3

ORDERING DETAILS

KMFseries R T P

KMFseries - Series Model #

R - Resistance Value (E-24,12series e.g.: 0R12=0.12Ω, 120R=120Ω, 1K2=1.2kΩ, 12M=12MΩ)
T - Tolerance Code (±0.1% - B, ±0.25% - C, ±0.5% - D, ±1% - F, ±2% - G, ±5% - J, ±10% - K, ±20% - M)
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: KMF1/4 10K J T63— KMF1/4 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.

KWK Resistors India Pvt. Ltd.

Reg. Office: B-81, Industrial Estate, Rajajinagar, Bengaluru-560044.India

Works: #72, 3rd main, 2nd stage, Industrial suburb, Yeshwanthpur, Bengaluru-560022.India

Ph.:+91-80-23370038, Tele/Fax:+91-80-23370046 Email: contact@kwk-resistors.in



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