

# KWK RESISTORS INDIA



## KSM SERIES - METAL OXIDE FILM RESISTORS - AXIAL TYPE

The KSM series is a range of high stability, high reliability, and flameproof metal oxide film resistors. A wide range of resistance values are available in this series of Resistors. These resistors are suitable for high-power circuits of electronic devices.

Non-Inductive type resistors are also offered in this series .

Small sized metal oxide resistors, KSM(S), are also available in this series.



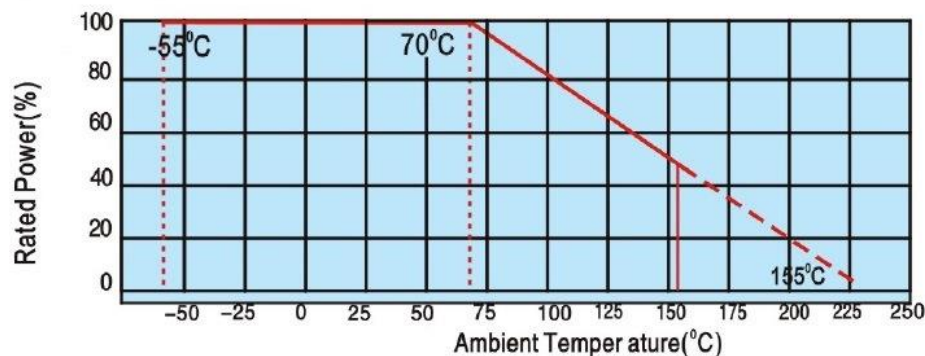
### Features:

- Wide range of resistance values available.
- Non-inductive versions on offer.
- Good electrical stability, reliability and mechanically very rigid.
- Flameproof coating.

## ELECTRICAL SPECIFICATIONS

Characteristics	Condition	Compliance
Continuous Power	Rated power @25°C	
Tolerance		±1%, ±2%, ±5% & ±10%
Temperature Coefficient		± 350PPM/°C
Insulation Resistance		>10 <sup>4</sup> Ω
Change in resistance		
a. Short time overload	-	KSM: ± (1% + 0.05Ω), KSM(S): ± (2% + 0.1Ω)
b. Load Life	@70°C	± (5% + 0.05Ω)
c. Temperature Cycling	-	± (1% + 0.05Ω)
d. Moisture Load Life	-	± (5% + 0.05Ω),
Solderability (where applicable)		>95%

## POWER DERATING CURVE

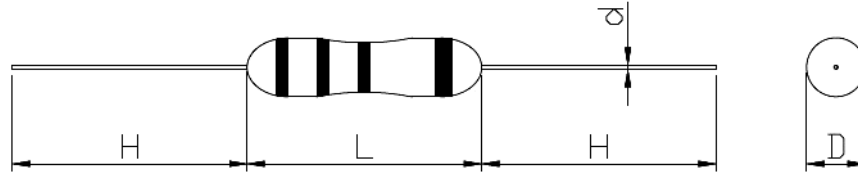


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### RESISTANCE RANGE AND DIMENSIONAL DETAILS



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	KSM1/4	0.25	200	300	250	0.1Ω-600kΩ	6.5±0.5	2.3±0.3	0.43±0.02	25±3
	KSM1/2	0.5	250	400	350	0.1Ω-600kΩ	9.0±1.0	3.2±0.5	0.50±0.02	25±3
	KSM1	1	350	600	500	0.1Ω-600kΩ	12.0±1.0	4.5±0.5	0.65±0.02	25±3
	KSM2	2	350	600	500	0.1Ω-600kΩ	15.5±1.0	5.0±1.0	0.72±0.02	23±3
	KSM3	3	450	700	600	0.1Ω-600kΩ	17.5±1.0	6.0±1.0	0.72±0.02	27±3
	KSM5	5	750	1000	750	0.1Ω-600kΩ	24.5±1.0	8.5±1.0	0.75±0.02	27±3
	KSM6	6	750	1000	750	0.1Ω-600kΩ	24.5±1.0	8.5±1.0	0.75±0.02	27±3
	KSM7	7	750	1000	750	10Ω-200kΩ	41.0±1.0	8.5±1.0	0.8±0.02	38±3
	KSM8	8	750	1000	750	10Ω-200kΩ	41.0±1.0	8.5±1.0	0.8±0.02	38±3
Small Size	KSM(S)1/2	0.5	250	400	350	0.1Ω-600kΩ	6.5±0.5	2.3±0.3	0.43±0.02	25±3
	KSM(S)1	1	300	500	400	0.1Ω-600kΩ	9.0±1.0	3.2±0.5	0.50±0.02	25±3
	KSM(S)2	2	350	600	500	0.1Ω-600kΩ	12.0±1.0	4.5±0.5	0.65±0.02	25±3
	KSM(S)3	3	350	600	500	0.1Ω-600kΩ	15.5±1.0	5.0±1.0	0.72±0.02	23±3
	KSM(S)5	5	500	800	700	0.1Ω-600kΩ	17.0±1.0	6.0±1.0	0.72±0.02	27±3
	KSM(S)7	7	750	1000	750	0.1Ω-600kΩ	24.5±1.0	8.5±1.0	0.75±0.02	27±3
	KSM(S)10	10	800	1500	1200	10Ω-200kΩ	53.0±1.0	8.5±1.0	0.8±0.02	38±3

### ORDERING DETAILS

#### KSMseries R T P

KSMseries - Series Model #

R - Resistance Value (E-24,12series e.g.: 0R12=0.12Ω, 120R=120Ω, 1K2=1.2kΩ, 12M=12MΩ)  
 T - Tolerance Code (±1% - F, ±2% - G, ±5% - J, ±10% - K)  
 P - Packaging (S-Bulk (Straight), M-Bulk M-Form series (Horizontal Forming), U-Bulk U-Form series (Vertical Forming), T/R-Tape on reel packaging, Txx- Boxed (26,52,63,73,83mm width taping)).

Example: KSM1/4 10K J T63— KSM1/4 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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