

KWK RESISTORS INDIA



KVR SERIES - VITREOUS ENAMELLED RESISTORS

Vitreous enameled resistors have been known for many years and are used to date in spite of increasingly improved methods developed in other resistor technologies over the past decades.

Mainly due to some characteristics of the vitreous enameled resistors that cannot be offered by other designs and are of great importance in many cases, namely:

- a) High loading capacity at low dimensions
- b) High durability

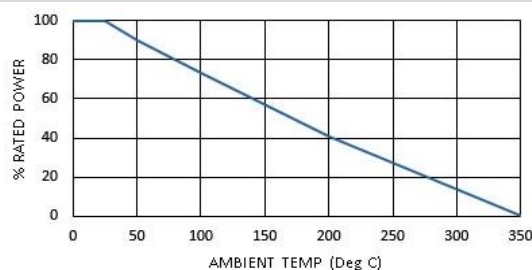
KWK Resistors, one of India's largest Power resistor designers and manufacturers offers a High-Quality Vitreous Enameled Power resistor



ELECTRICAL SPECIFICATIONS

Characteristics	Condition	Compliance
Continuous Power	Rated power at 25°C	≤ 400°C temperature on the surface
Tolerance		J (±5%), K (±10%)
Insulation Resistance	Dry/Normal @ 500V DC	> 100MΩ
Operating Temperature	-55 °C to 300 °C	
Temperature Coefficient		< ± 120PPM/°C
Maximum working Voltage	KVR15-300V, KVR25-600V, KVR45-1000V KVR70-1000V, KVR90-1400V, KVR130-1600V KVR220-2500V, KVR300-3600V, KVR400-5000V, KVR500-5000V	
Maximum overload voltage	2.5 x Rated Voltage For 5 Sec.	
Dielectric strength	KVR15-KVR45 – 1.5kV for 60 Sec. KVR70-KVR90 – 2.5kV for 60 Sec. KVR130-KVR500 – 5kV for 60 Sec.	No breakdown
Short-time overload capability	5 x Rated Power for 5 Sec.	
Load life	Rated wattage 1.5 Hours ON - 1.5 Hours OFF for 1000 Hours	
Solderability (Where applicable)	350 °C for up to 3 sec	95% coverage

POWER DERATING CURVE

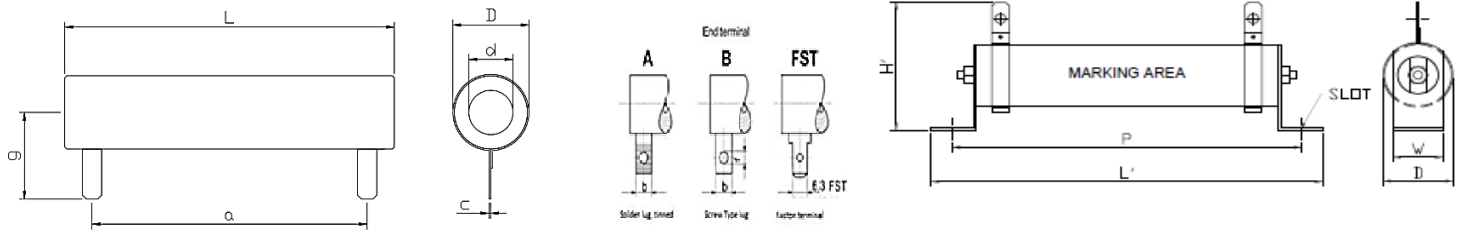


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RESISTANCE RANGE AND DIMENSIONAL DETAILS



Note: All dimensions are in mm.

Series	Rated Power(W)	Resistance Range	D(max)	L ± 1.6	L' ± 2	H ± 2	W ± 1	P ± 2	a ± 1	d ± 1	g (ref)	B ± 0.2	F ± 0.2	F Solder (min.)
KVR15	15	1R0 - 3K0	15.1	38.1	78.1	40	15	63.1	27	5.5	18	6	3.2	2.7
KVR25	25	1R0 - 4K7	15.1	50.8	90.8	40	15	75.8	38	5.5	18	6	3.2	2.7
KVR45	45	2R0 - 7K5	15.1	76.2	116.2	40	15	101.2	65	5.5	18	6	3.2	2.7
KVR70	70	2R7 - 10K	23.0	76.2	126.2	58.5	18	111.2	60	12.0	25	8	4.3	3.8
KVR90	90	3R6 - 22K	23.0	101.6	151.6	58.5	18	136.6	85	12.0	25	8	4.3	3.8
KVR130	130	4R7 - 22K	33.3	101.6	151.6	72.5	28	136.6	68	18.5	29	8	4.3	3.8
KVR220	220	5R1 - 22K	33.3	152.4	202.4	72.5	28	187.4	119	18.5	29	8	4.3	3.8
KVR300	300	6R8 - 22K	33.3	203.2	253.2	72.5	28	238.2	170	18.5	29	8	4.3	3.8
KVR400	400	10R - 22K	33.3	266.7	316.7	72.5	28	301.7	230	18.5	29	8	4.3	3.8
KVR500	500	8R2 - 22K	33.3	304.8	354.8	72.5	28	339.8	270	18.5	29	8	4.3	3.8

ORDERING DETAILS

PRODUCT CODE R T Y

Product code - Series Model
 R - Resistance Value
 T - Tolerance Code (±5% - J, ±10% - K)
 M - With Mounting clamps(MS Zinc Blue Plated)
 Y - Type of Termination (Termination types - A, B, OR FST)
 Example: KVR9010RJMA – KVR90 10R ±5% with Mounting clamp & Solderable Terminals

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

