

# KWK RESISTORS INDIA

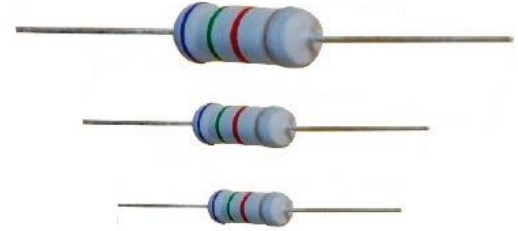


## KHVS SERIES - HIGH VOLTAGE SURGE RESISTORS - AXIAL TYPE

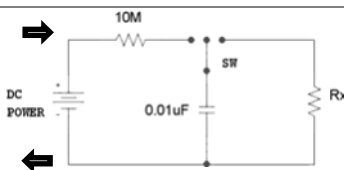
The KHVS series is range of High Voltage Surge Resistors. This series are capable of withstanding High Voltage up to 10KV.

### Features:

- Excellent electric stability and reliability.
- Also available in small sizes.
- EU-RoHS compliant.
- Good Temperature Coefficient of Resistance.



## ELECTRICAL SPECIFICATIONS

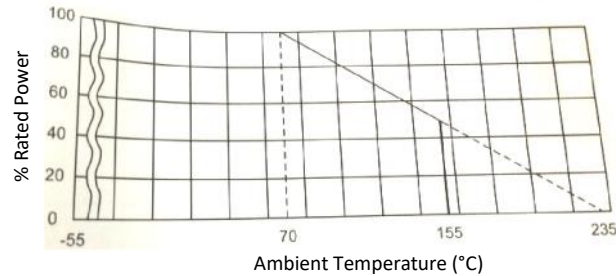
Characteristics	Condition (According to MIL-STD)	Compliance
Tolerance		±5%
Insulation Resistance	500V DC for 1minute	≥50GΩ
Change in resistance		
a. Short time overload	6.25 x Rated power for 5sec.	±(1%+0.05Ω)
b. Load life	@70±2°C Max. working voltage for 1000hrs with 1.5hrs ON and 0.5hrs OFF.	±(1.5%+0.1Ω)
c. Load life in humidity	10% rated power load @40°C , 95% RH for 1000hrs with 1.5hrs ON and 0.5hrs OFF.	±(5%+0.1Ω)
d. Moisture Resistance	@40°C , 95% RH for 240hrs	±(1%+0.05Ω)
e. Temperature Cycle	5 cycles for -25°C (30mins); room temp.(30min); ~ +85°C (30mins); room temp.(30min);	±(1%+0.05Ω)
f. Resistance to soldering heat	260°C ±5°C for 10 seconds; 350°C ±10°C for 3.5 seconds;	±(1%+0.05Ω)
Pulse Withstanding Voltage	±20% 	2.5sec ON 2.5sec OFF 50 Cycles. Test Voltage (DC Surge) 10KV max.
Surge Test - High Energy Test	Item	Spec
	Capacitance	0.12μF
	Voltage	10KV
	Charging/Discharging Time	10sec/2sec
	Cycle	12sec
	Charging/Discharging Cycle	1000 Cycles
Criteria	+100% ~ -2%	
Surge Test - Low Energy Test	Item	Spec
	Capacitance	0.03μF
	Voltage	10KV
	Charging/Discharging Time	10sec/2sec
	Cycle	12sec
	Charging/Discharging Cycle	1000 Cycles
Criteria	+100% ~ -2%	

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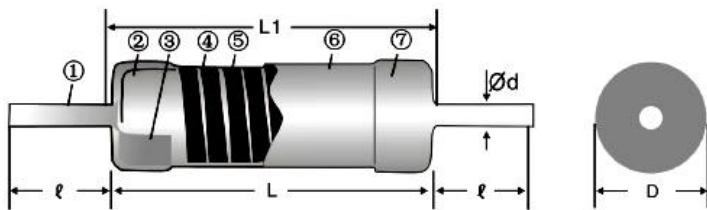


## KHVS SERIES - HIGH VOLTAGE SURGE RESISTORS - AXIAL TYPE

### POWER DERATING CURVE



### RESISTANCE RANGE AND DIMENSIONAL DETAILS



1. Lead Wire.
2. Ceramic Base.
3. Cap.
4. Helical cutting groove.
5. Metal glaze film.
6. Marking.
7. Insulation Coating.

*Note: All dimension are in mm.*

Series	Rated Power	Max. Working Voltage	Dielectric Withstand Voltage	Resistance Range J±5% (E24 series)	TCR	L	L1 Max.	D	d	ℓ	Weight (g) (1000 pcs)
KHVS1/2	0.5W	3500V	700V	>680K	±200ppm/°C	9 ±0.5	11.00	3.3 ±0.5	0.6 ±0.05	28 ±3	285
KHVS1(S)	1W										
KHVS1	1W	7000V				12 ±1.0	15.00	4.5 ±0.5	0.8 ±0.05	38 ±3	728
KHVS2(S)	2										
KHVS2	2										
KHVS3(S)	3										

### ORDERING DETAILS

#### KHVSseries R T P

KHVSseries- Series Model #

R - Resistance Value (E-24,12series e.g.: 0R12=0.12Ω, 120R=120Ω, 1K2=1.2kΩ)

T - Tolerance Code (±5% - J)

Example: KHVS1(S) 1R J - KHVS 1W small sized 1Ω 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.

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

www.kwk-resistors.in

2 of 2



**BUREAU  
VERITAS**

KWKCAT28 R00