

# KWK RESISTORS INDIA



## KHA SERIES - ALUMINIUM HOUSED POWER RESISTORS

The KHA style, is a range of high quality, high stability Aluminum housed Power resistors designed for direct heatsink attachment.  
A wide range of resistance values are available in 5 to 300W.  
Design of higher wattage resistors for special applications can be done with ease.

### Features:

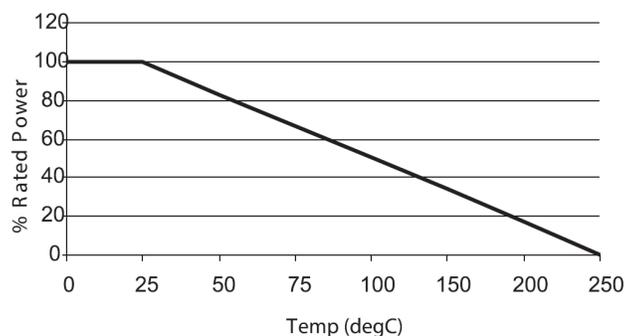
- Excellent Electrical stability, reliability and mechanically very rigid
- Non Inductive version available
- Values from R01 to 150K
- Custom terminations, Mounting arrangements possible
- RoHS Compliant



## PERFORMANCE CHARACTERISTICS

Characteristics	Condition	Compliance
Tolerance (Tighter tolerance available on request)	For Values less than 1Ω For Values greater than 1Ω	± 5% ± 0.25% to ±5%
Temperature Co-efficient	Dry/Normal	100 PPM/°C max
Insulation Resistance		> 10 GΩ
Endurance	1.5Hrs ON, 0.5Hrs OFF for 1000Hrs @Room Temperature	ΔR < 1% +0R05
Short Term Overload	5 x Rated Power or Isolation Voltage (Whichever is Lesser of the two Voltages)	ΔR < 1% +0R05
Termination Robustness	20N Tensile Force	ΔR < 0.25% +0R05
Resistance to Soldering Heat	260°C, 10 Seconds	ΔR < 0.25% +0R05
Rapid Change of Temperature	-55°C/200°C, 5 Cycles	ΔR < 0.25% +0R05
Bump	4000 Bumps at 40g	ΔR < 0.25% +0R05
Vibration	10Hz to 500Hz, 10g, 6 hrs	ΔR < 0.25% +0R05

## POWER DERATING CURVE



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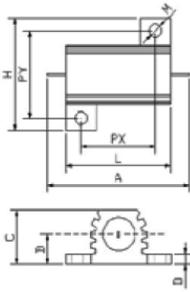


## KHA SERIES - ALUMINIUM HOUSED POWER RESISTORS

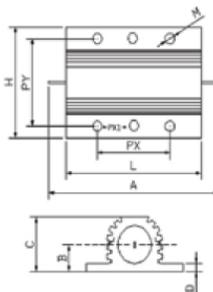
### ELECTRICAL SPECIFICATIONS

SERIES	RATED POWER ON HEATSINK @ 25°C (W)	RATED POWER W/O HEATSINK @ 25°C (W)	RESISTANCE RANGE (Ω)	MAX WORKING VOLTAGE (DC/AC rms) (v)	DIELECTRIC STRENGTH (AC peak)	WEIGHT (gms approx.)	STANDARD HEATSINK AREA (cm <sup>2</sup> )	STANDARD HEATSINK THICKNESS (cm)
KHA5	10	5	R10 - 10K	160	1400	5	400	0.1
KHA10	15	8	R10 - 15K	260	1400	7	400	0.1
KHA25	25	12.5	R01 - 33K	550	2500	15	550	0.1
KHA50	50	20	R01 - 100K	1250	2500	30	550	0.1
KHA75	75	45	R10 - 50K	1400	5000	85	1000	0.3
KHA100	100	50	R10 - 100K	1900	5000	115	1000	0.3
KHA150	150	55	R10 - 100K	2500	5000	175	1000	0.3
KHA200	200	50	R10 - 50K	1900	5000	475	3750	0.3
KHA250	250	60	R10 - 65K	2200	5000	600	4800	0.3
KHA300	300	75	R10 - 80K	2500	5000	700	5800	0.3

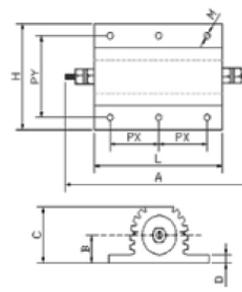
KHA5-50



KHA75-150



KHA200-300



Note: All dimension are in mm.

Series	L ±0.5	A max	H	PX ±0.3	PX1	PY ±0.3	M ±0.5	B max	C max	D
KHA5	16.8	31.0	17.0	11.3	-	12.4	2.4	4.5	9.0	2.5
KHA10	20.1	36.5	21.0	14.3	-	15.9	2.4	5.5	11.0	2.5
KHA25	27.3	51.8	28.0	18.3	-	19.8	3.2	7.5	15.0	3.0
KHA50	50.1	72.5	30.0	39.7	-	21.4	3.2	8.5	17.0	3.0
KHA75	48.9	71.0	48.0	29.0	-	37.0	4.4	12.0	26.0	4.0
KHA100	65.4	87.5	48.0	35.0	-	37.0	4.4	12.0	26.0	4.0
KHA150	97.0	122.0	48.0	58.0	29.0	37.0	4.4	12.0	26.0	4.0
KHA200	89.0	143.0	73.0	35.0	-	57.2	5.5	20.5	45.0	5.5
KHA250	114.0	163.0	73.0	44.5	-	57.2	5.5	20.5	45.0	5.5
KHA300	127.0	180.0	73.0	52.0	-	59.0	6.5	20.5	45.0	5.5

### ORDERING DETAILS

#### KHAseries R T

KHA - Series Model, R - Resistance Value, T - Tolerance Code (±5% - J, ±10% - K)

EXAMPLE: KHA3006R8J - KHA300 6R8 ±5%

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.

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Disclaimer: Product specifications, data and dimensions are subject to change without any prior notice to improve performance, reliability and design.



KWKCAT01 R01