

KWK RESISTORS INDIA



KBR1C - METAL CLAD BRAKING RESISTORS

The KBR1C style is a range of high quality, high stability Aluminium housed Power resistors designed for direct heat sink attachment. It is designed to withstand high adiabatic pulses making it excellent for braking applications. A wide range of resistance values is available in 150W to 600W (Continuous on heatsink).

Design of higher wattage resistors for special applications can be done with ease. Assemblies of these resistors to achieve higher powers, can be done with ease.

Features:

- *Excellent Heat transfers and small dimensions.*
- *Good Electrical Stability, reliability and mechanically very rigid.*
- *Wide Range of Resistance values available.*
- *Custom Terminations, Mounting Arrangements possible.*
- *RoHS Compliant.*



PERFORMANCE CHARACTERISTICS

Characteristics	Condition	Compliance
Tolerance		$\pm 5\%, \pm 10\%$
Temperature Co-efficient		$< \pm 150 \text{ PPM}/^{\circ}\text{C}$
Insulation Resistance	Dry/Normal @ 500V DC	$> 10 \text{ G}\Omega$
Inductance	1Khz	$< 0.2 \text{ mH}$
Working Voltage	(Refer maximum working voltage in series wise data)	$\text{Sqrt}(P.R)$
Change in Resistance		
- Short time over load	10x rated voltage for 5 secs	$< \pm (1\% + 0.05\Omega)$
- Load Life	Wattage rating (1.5Hr ON – 1.5Hr OFF) for 1000 hours	$< \pm 1\%$
Operating Temperature	From -25°C to 250°C	



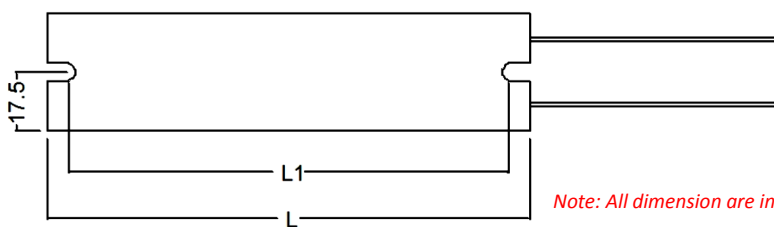
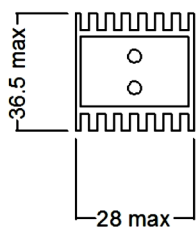
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Electrical Specifications

Series	Power rating on Std. Heat sink	Power rating with no Heat sink	Power @ 30% duty cycle w/o heatsink	Peak power load in 5s	Resistance Range	Dielectric Strength	Max Work- ing Voltage
	W@25°C	W@25°C	W@25°C	W@25°C		(AC Pk)	V
KBR1C150	150	50	125	1500	2.0 – 270Ω	2.5KV FOR 1 MIN	1000
KBR1C200	200	65	165	2000	3.0 – 330Ω		1000
KBR1C300	300	80	250	3000	4.0 – 460Ω		1500
KBR1C400	400	90	330	4000	5.6 – 820Ω		2000
KBR1C500	500	110	410	5000	6.0 – 1KΩ		2300
KBR1C600	600	135	500	6000	8.0 – 1.6KΩ		2800

Standard heatsink considered is 250 cm². Do not overrate power with a bigger heatsink.

Mechanical Specifications



Note: All dimension are in mm.

Series	L ±0.5	L1 ±0.5	Mounting slot dimension
KBR1C150	90	79	5.8x10
KBR1C200	105	94	5.8x10
KBR1C300	155	144	5.8x10
KBR1C400	200	189	5.8x10
KBR1C500	260	249	5.8x10
KBR1C600	320	309	5.8x10

Note: Standard Cable length is 300mm and cable type is Fibreglass Silicon cable, 14AWG.

Contact us for any customisation requirement in terms of cable type, length, mounting, terminations etc.,

ORDERING DETAILS

KBR1Cseries R T CL

- KBR1Cseries - Series Model #
- R - Resistance Value (e.g.: 1R=1Ω; 10R2=10.2Ω; 1K=1kΩ; 1k2=1.2kΩ)
- T - Tolerance Code (±5% -J, ±10% -K)
- CL - Cable Length (Cable length if not standard in mm)

Example: KBR1C600 10R J 400

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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