

# KWK RESISTORS INDIA



## KABR - METAL CLAD BRAKING RESISTORS - STANDARD POWER

The KABR series are range of Metal encased, Dynamic braking resistors. These resistors are economical and compact. This series resistors offer excellent load life stability. Power dissipation of up to 1000W is available in this series.

Assemblies of these resistors to achieve higher powers, can be done with ease.

### Features:

- Excellent Electrical stability, reliability and mechanically very rigid.
- Non Inductive types available.
- Termination style can be UL Approved Cables or Flat terminals for screw fixing.
- Custom terminations & Vertical mounting arrangements possible.
- Thermal cutout can be provided on request.
- Stacking solution available.

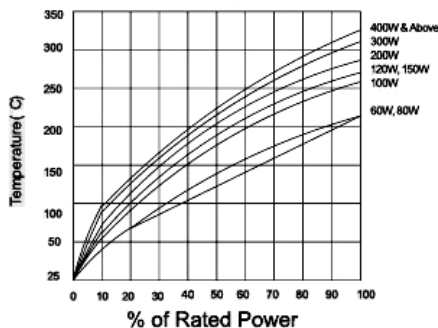


## PERFORMANCE CHARACTERISTICS

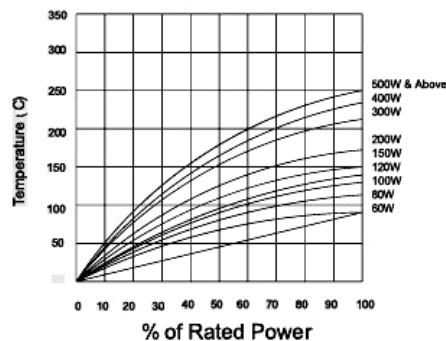
Characteristics	Condition	Compliance
Tolerance	For Values less than 1Ω For Values greater than 1Ω	± 5% to ±10% ± 1% to ±10%
Temperature Co-efficient		±200 PPM/°C max
Insulation Resistance	Dry/Normal	20MΩ min.
Endurance	1.5Hrs ON, 0.5Hrs OFF for 500Hrs @Room Temperature	$\Delta R < \pm(5\% + 0.05\Omega)$
Short Term Overload	$\leq 60W$ - 5 x Rated Power for 5sec $> 60W$ - 10 x Rated Power for 5 sec	$\Delta R < \pm(2\% + 0.05\Omega)$
Operating Temperature	-25°C to 250°C	
Humidity	40°C, 90% Rh, 240Hrs	$\Delta R < \pm(3\% + 0.05\Omega)$
Dielectric Strength	1500VAC rms for 1minute	No Breakdown or Flashover

## SURFACE TEMPERATURE INCREASE v/s POWER LOAD AND POWER DERATING CURVE

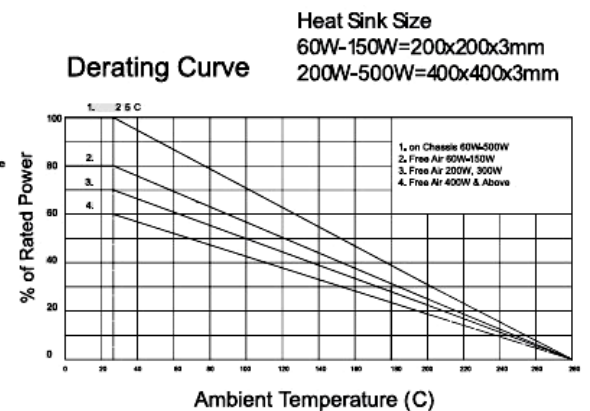
### FREE AIR



### HEATSINK



### Derating Curve

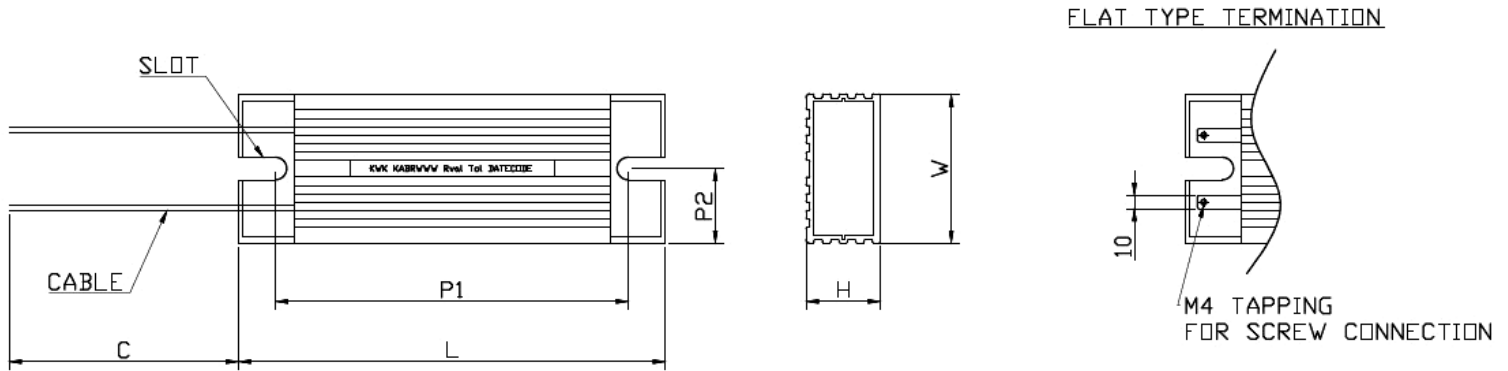


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### RESISTANCE RANGE AND DIMENSIONAL DETAILS



Note: All dimension are in mm.

Series	Max. Continuous Power (W) (on Heat sink)	Max. Continuous Power (W) (Without Heat sink)	Max. Surface Temperature on Heat sink	Resistance Range	L	W	H	C	P1	P2
KABR60	60	55	230	0.2Ω - 20Ω	115	40	20	290	100	20
KABR80	80	65	230	0.5Ω - 1KΩ	140	40	20	290	125	20
KABR100	100	75	230	1Ω - 1KΩ	165	40	20	290	150	20
KABR120	120	90	250	6Ω - 1KΩ	190	40	20	290	175	20
KABR150	150	100	250	6Ω - 1KΩ	215	40	20	290	200	20
KABR200	200	110	270	0.5Ω - 1KΩ	165	60	30	290	150	30
KABR300	300	155	270	0.5Ω - 1.5KΩ	215	60	30	290	200	30
KABR400	400	200	270	1.5Ω - 2KΩ	265	60	30	290	250	30
KABR500	500	270	270	1.5Ω - 2KΩ	335	60	30	290	320	30
KABR600	600	300	270	1.5Ω - 2KΩ	335	60	30	290	320	30
KABR800	800	330	270	2Ω - 2KΩ	400	60	30	290	385	30
KABR1000	1000	450	270	2Ω - 2KΩ	400	60	30	290	385	30

### ORDERING DETAILS

KABRseries R T Y  
 KABRseries - Series Model #  
 R - Resistance Value (e.g.: 1R=1Ω; 10R2=10.2Ω; 1K=1kΩ; 1k2=1.2kΩ)  
 T - Tolerance Code (±1% - F, ±2% - G, ±5% - J, ±10% - K)  
 Y - Termination Type (C - Cable with Fork Terminal, F - Flat Terminations)  
 Example: KABR60 10R J C - KABR 60W 10R 5% with cable leads.

*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.

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