

# KABR Wirewound Metal Clad Braking Resistor



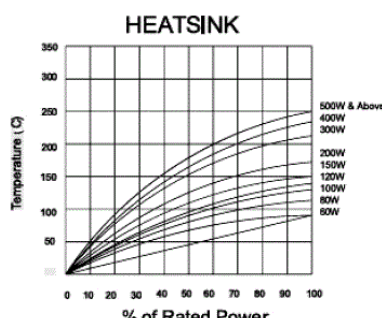
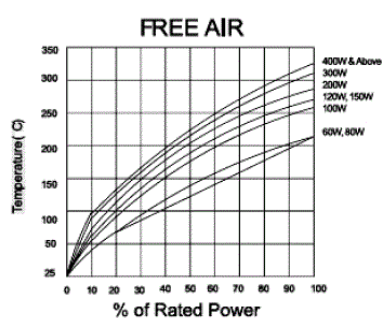
- Excellent stability, reliability and mechanically rigid
- Applications - motor drives, braking and snubber resistors
- Stacking solutions available
- RoHS Compliant



## Characteristics

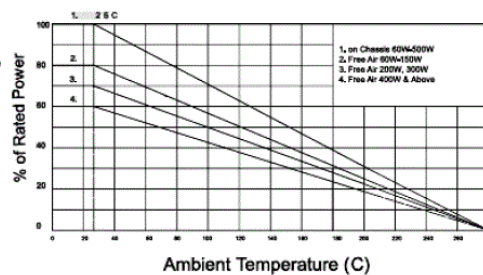
| Characteristics          | Condition                                                                                            | Compliance                                     |
|--------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Tolerance                | Resistance values $<1\Omega$<br>Resistance values $>1\Omega$                                         | $\pm 5\%$ to $\pm 10\%$<br>$\pm 1\%$ to $10\%$ |
| Temperature Co-efficient |                                                                                                      | $\pm 200$ PPM/ $^{\circ}\text{C}$ Max          |
| Insulation Resistance    | Dry/Normal                                                                                           | $20\text{M}\Omega$                             |
| Endurance                | 1.5Hrs ON, 0.5 Hrs OFF for 500 Hrs @<br>Room Temperature                                             | $\Delta R < \pm(5\% + 0.05\Omega)$             |
| Short Term Overload      | $\leq 60\text{W}$ - 5 x Rated Power For 5 Seconds<br>$> 60\text{W}$ - 10 x Rated Power For 5 Seconds | $\Delta R < \pm(2\% + 0.05\Omega)$             |
| Operating Temperature    | $-25^{\circ}\text{C}$ - $250^{\circ}\text{C}$                                                        |                                                |
| Humidity                 | $40^{\circ}\text{C}$ , 90% Rh, 240Hrs                                                                | $\Delta R < \pm(3\% + 0.05\Omega)$             |
| Dielectric Strength      | 1500VAC RMS for 1 Minute                                                                             |                                                |

## Surface Temperature increase V/S Power Load & Derating Curve



1 of 2

**Derating Curve**  
Heat Sink Size  
60W-150W=200x200x3mm  
200W-500W=400x400x3mm



CAT02 R01

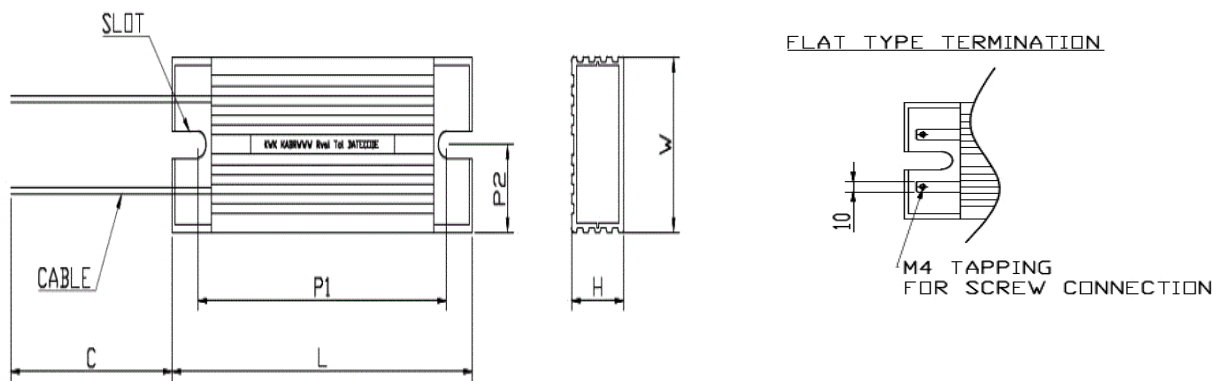
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The information contained herein does not form part of a contract and is subject to change without notice. Arcol operate a policy of continual product development, therefore, specifications may change.

It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask Arcol.

Dimensions



| Series   | Max Continuous Power (w)<br>(On Heatsink) | Max Continuous Power (w)<br>(Without Heatsink) | Max. Surface Temperature on Heatsink | 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 Procedure

Standard Resistor: Series, Resistance Value, Tolerance  
Special: F = Flat Terminations

KABR60 10R J  
KABR60 10R J F = Flat Terminals

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