

RESISTORS INDIA



Aluminium Housed Power Resistors | KHA Series

The KHA style is a range of high quality, high stability Aluminium housed Power resistors designed for direct heat sink 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

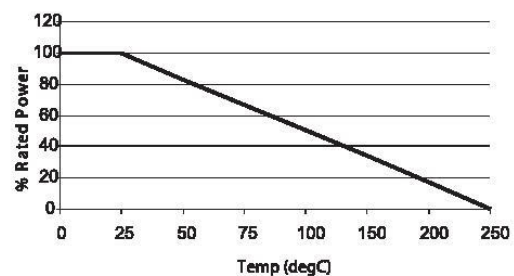
- Good Electrical Stability, reliability and mechanically very rigid.
- Non Inductive version available.
- Values from R01 to 150K.
- Custom Terminations, Mounting Arrangements possible.
- RoHS Compliant.



GENERAL SERIES CHARACTERISTICS

| Characteristic | Condition | Compliance |
|-------------------------------------------------------|---------------------------------------------------------|-------------------------|
| Tolerance (Tighter Tolerance available on request) | For Values less than 1 Ω For Values greater than 1 Ω | ± 5% ± 0.25% to ± 5% |
| Temperature Co-efficient | Dry/Normal | 80 PPM/°C max |
| Insulation Resistance | | 10 GΩ min |
| Change In Resistance | | |
| - Short time overload | 10x rated voltage for 5 secs | ± 0.5% |
| - Shelf Life | After 3 years | < ± 1% |
| Incombustibility | 16x Rated Wattage for 5 secs | No Flame |

Power Derating Chart



POWER DERATING

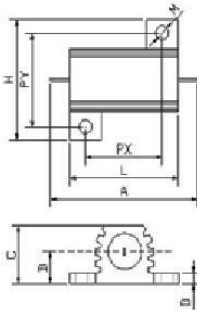
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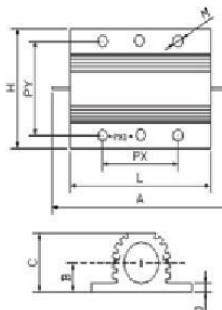
ELECTRICAL SPECIFICATIONS

| Series | Power rating on Std Heat sink @25°C (W) | Power rating with no Heat sink @25°C (W) | Resistance Range | Limiting element Voltage (DC/AC ms) | Dielectric Strength (AC Pk) | Weight Approx. (gms) | Standard Area (cm ²) | Thickness (mm) |
|--------|-----------------------------------------|------------------------------------------|------------------|-------------------------------------|-----------------------------|----------------------|----------------------------------|----------------|
| KHA5 | 10 | 5 | R01-10K | 160 | 1400 | 5 | 400 | 1 |
| KHA10 | 15 | 8 | R01-15K | 260 | 1400 | 7 | 400 | 1 |
| KHA25 | 25 | 12.5 | R01-35K | 550 | 2500 | 15 | 550 | 1 |
| KHA50 | 50 | 20 | R01-100K | 1250 | 2500 | 30 | 550 | 1 |
| KHA75 | 75 | 45 | R01-50K | 1400 | 5000 | 85 | 1000 | 3 |
| KHA100 | 100 | 50 | R01-100K | 1900 | 5000 | 115 | 1000 | 3 |
| KHA150 | 150 | 55 | R01-100K | 2500 | 5000 | 175 | 1000 | 3 |
| KHA200 | 200 | 50 | R01-50K | 1900 | 5000 | 475 | 3750 | 3 |
| KHA250 | 250 | 60 | R01-65K | 2200 | 5000 | 600 | 4800 | 3 |
| KHA300 | 300 | 75 | R01-80K | 2500 | 5000 | 700 | 5800 | 3 |

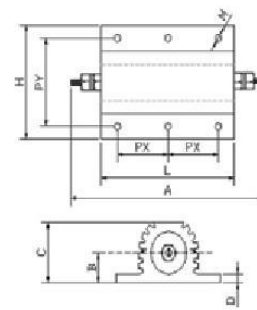
KHA5-50



KHA75-150



KHA200-300



| 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 | 17 | 11.3 | - | 12.4 | 2.4 | 4.5 | 9 | 2.5 |
| KHA10 | 20.1 | 36.5 | 21 | 14.3 | - | 15.9 | 2.4 | 5.5 | 11 | 2.5 |
| KHA25 | 27.3 | 51.8 | 28 | 18.3 | - | 19.8 | 3.2 | 7.5 | 15 | 3 |
| KHA50 | 50.1 | 72.5 | 30 | 39.7 | - | 21.4 | 3.2 | 8.5 | 17 | 3 |
| KHA75 | 48.9 | 71 | 48 | 29 | - | 37 | 4.4 | 12 | 26 | 4 |
| KHA100 | 65.4 | 87.5 | 48 | 35 | - | 37 | 4.4 | 12 | 26 | 4 |
| KHA150 | 97 | 122 | 48 | 58 | 29 | 37 | 4.4 | 12 | 26 | 4 |
| KHA200 | 89 | 143 | 73 | 35 | - | 63.5 | 4.8 | 20.5 | 45 | 5.5 |
| KHA250 | 114 | 163 | 73 | 44.5 | - | 63.5 | 4.8 | 20.5 | 45 | 5.5 |
| KHA300 | 127 | 180 | 73 | 52 | - | 63.5 | 4.8 | 20.5 | 45 | 5.5 |

Please feel free to contact us, for any assistance required to choose the right solution. We are also able to design custom resistive solutions based on your requirement.

