

SILICONE COATED AXIAL RESISTORS (RA Series)

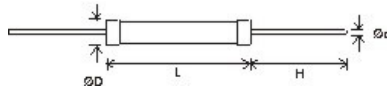
Introduction:

RA Series is a high precision type resistor with very good insulation. It can be used in almost all electronic circuitry as a current limiting resistor and thus finds application in many areas like Defence equipment, Process control Instrumentation, Telecommunication, Power supplies, Audio, Video etc.,

Features:

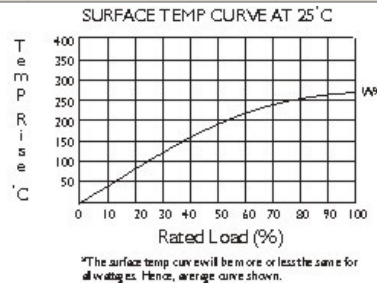
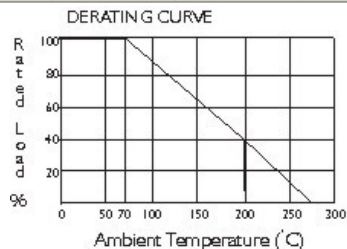
- Super heat dissipation
- Completely welded construction
- Non-flammable silicone coating
- Low cost and high reliability

Dimensions:



All Dimensions in mm

| Type | Watts | Range | D ± 1 | L ± 2 | d ± 0.02 | H(MIN) | V(MAX) |
|---------|-------|---------|-------|-------|----------|--------|--------|
| RAF01 | 0.5 | OR1-1K8 | 2.7 | 6.5 | 0.6 | 27 | |
| RAF02 | 0.5 | OR1-3K3 | 4.0 | 8.5 | 0.6 | 27 | |
| RA001 | 1.0 | OR1-5K6 | 4.0 | 13.0 | 0.8 | 38 | 50 |
| RA001A | 1.0 | OR1-3K9 | 4.0 | 11.0 | 0.8 | 38 | 50 |
| RA002 | 2.0 | OR1-6K2 | 5.0 | 13.0 | 0.8 | 38 | 100 |
| * RAF04 | 2.5 | OR1-6K2 | 5.6 | 13.0 | 0.8 | 38 | 100 |
| RA003 | 3.0 | OR1-6K8 | 6.0 | 13.0 | 0.8 | 38 | 150 |
| RA004 | 4.0 | OR1-15K | 7.0 | 16.0 | 0.8 | 38 | 150 |
| RA005 | 5.0 | OR1-20K | 7.0 | 23.0 | 0.8 | 38 | 200 |
| * RA006 | 6.0 | OR1-27K | 8.0 | 23.0 | 0.8 | 38 | 200 |
| RA007 | 7.0 | OR1-36K | 8.0 | 31.0 | 0.8 | 38 | 500 |
| * RA009 | 9.0 | OR1-51K | 8.0 | 39.0 | 0.8 | 38 | 500 |
| RA010 | 10.0 | OR1-56K | 8.0 | 45.0 | 0.8 | 38 | 750 |
| RA010A | 10.0 | OR1-56K | 9.0 | 41.0 | 0.8 | 38 | 750 |
| * RA012 | 12.0 | OR1-68K | 8.0 | 54.0 | 0.8 | 38 | 750 |
| RA012A | 12.0 | OR1-68K | 9.0 | 47.0 | 0.8 | 38 | 750 |
| RA015 | 15.0 | OR1-91K | 9.0 | 62.0 | 1.0 | 38 | 750 |



Mechanical Specification:

Terminal Strength: Withstands a pull of 5 Kg/cm² as per JSS specification.

Test Specifications:

| Test | Test Conditions | Limits |
|------------------------------|--|---|
| Load life | At 70°C on-off cycles for 1000 hrs | ±(5% + 0.05Ω) |
| Rated Load | Rated wattage for 1/2 hr at room temperature | ±(2% + 0.05Ω) |
| Short time over load | 5 seconds at 5 or 10 times the rated power | ±(2% + 0.05Ω) |
| Insulation resistance | 500 V D.C | >1000 M Ω |
| Temperature Coefficient (TC) | -55°C to +200°C | ±650 PPM / °C - 0.1 Ω to 0.49 Ω ±400 PPM / °C - 0.5 Ω to 0.99 Ω ±200 PPM / °C - 1.0 Ω to 9.99 Ω ±100 PPM / °C - 10 Ω and above |
| Tolerance | | ±10% for < 1 Ω ±1%, ±2%, ±5% for ≥ 1 Ω |
| Solvent Test | Using TrichloroEthane, IsoPropyl Alcohol | Printing should remain legible |

* LCSO (Electronic Components Standardisation Organisation) approved

- Non inductive (NI) types are also available (Reduce the maximum resistance to 50% of value shown & working voltage to 70% for NI types)
- Resistors of any other ohmic value, rating, tolerance or dimension & TC are available on request.



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