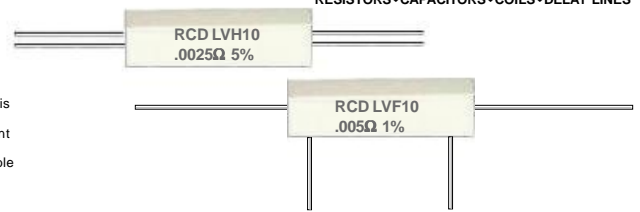


PRECISION 4-TERMINAL RESISTORS, 2- TO 20-WATT CERAMIC ENCASED LVF & LVH SERIES



Term.W is
RoHS
compliant
& 260°C
compatible

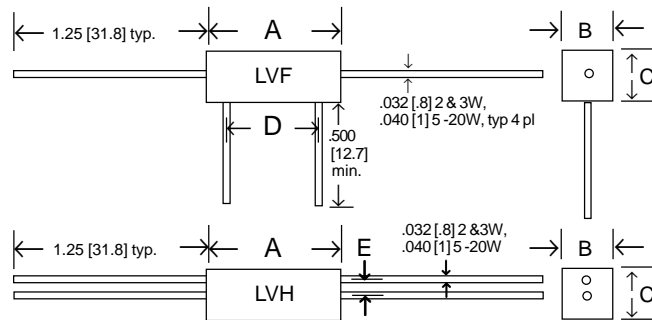


FEATURES:

- Industry's widest range of 4-terminal power resistors!
- Standard tolerances to 0.1%, TC's to 5ppm
- Welded & fireproof construction
- Available on exclusive **SWIFT™** delivery program!
- 4-terminal "Kelvin" design eliminates contributing error due to lead resistance
- Standard current ratings to 40A (up to 100A on custom basis)
- For surface mount design up to 3W see SF series

OPTIONS:

- Option X: Non-inductive design
- Option E: Low thermal EMF design
- Numerous other options available including custom marking, lead forming, lead diameter, burn-in, etc.



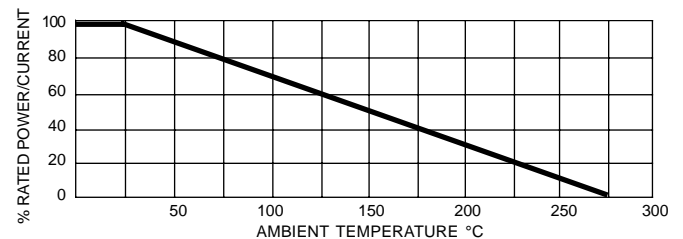
Four-Terminal Current Sensing as low as 0.0005Ω

RCD's Series LVF resistors feature a 4-terminal "Kelvin" design to eliminate the effects of lead resistance. Precision resistive element is potted inside a ceramic case for excellent durability and environmental protection. Series LVF resistors are well-suited for current sensing applications including test instrumentation, power supplies, and power amplifiers. Specify option E when circuits require low thermal EMF.

TEMPERATURE COEFFICIENT

| Resis. Range | Standard TC (ppm/°C, typ) | Optional TC |
|-----------------|---------------------------|--------------|
| .0005 to .0049Ω | 600 ppm | 200, 100, 50 |
| .005 to .0249Ω | 200 ppm | 100, 50, 30 |
| .025 to .99Ω | 100 ppm | 50, 30, 20 |
| 1 to 9.9Ω | 50 ppm | 30, 20, 10 |
| 10Ω and up | 30 ppm | 20, 10, 5 |

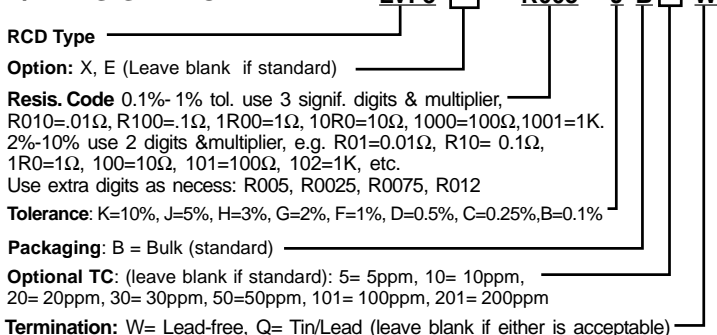
DERATING:



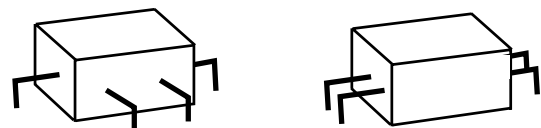
| RCD Type | Wattage Rating ¹ | Max. Working Voltage ^{1,2} | Max. Current ^{1,3} | Resistance Range (Ω) | DIMENSIONS [Numbers in brackets are mm] | | | | |
|--------------|-----------------------------|-------------------------------------|-----------------------------|----------------------|---|------------------|-----------------|--------------------------|----------------------------|
| | | | | | A ±.04 [1.0] | B ±.032 [.81] | C ±.032 [.8] | D (LVF only) ±.12 [3] | E (LVH only) ±.032 [.8] |
| LVF2S, LVH2S | 2 | 100V | 15A | .0005 - 10K | .59 [15] | .25 [6.35] | .25 [6.35] | .45 [11.43] | .075 [1.9] |
| LVF2, LVH2 | 2 | 100V | 20A | .0005 - 15K | .70 [17.58] | .27 [6.8] | .27 [6.8] | .50 [12.7] | .075 [1.9] |
| LVF3, LVH3 | 3 | 150V | 25A | .001 - 25K | .88 [22.4] | .31 [7.9] | .31 [7.9] | .56 [14.2] | .10 [2.54] |
| LVF5, LVH5 | 5 | 200V | 30A | .001 - 30K | .88 [22.4] | .38 [9.7] | .35 [8.9] | .56 [14.2] | .10 [2.54] |
| LVF7, LVH7 | 7 | 350V | 35A | .001 - 50K | 1.42 [36] Max | .38 [9.7] | .35 [8.9] | 1.00 [25.4] | .10 [2.54] |
| LVF10, LVH10 | 10 | 500V | 40A | .001 - 100K | 1.96 [50] Max | .38 [9.7] | .38 [9.7] | 1.38 [35.0] | .10 [2.54] |
| LVF15, LVH15 | 15 | 540V | 40A | .001 - 100K | 1.96 [50] Max | .50 [12.7] | .50 [12.7] | 1.38 [35.0] | .125 [3.17] |
| LV20F, LVH20 | 20 | 600V | 40A | .002 - 200K | 2.55 [65] Max | .50 [12.7] | .50 [12.7] | 2.00 [50.8] | .125 [3.17] |

¹ Consult factory for increased ratings ² Working Voltage = (PR)^{1/2}, voltage not to exceed the maximum value listed ³ Units not to exceed wattage, current, or voltage rating, whichever is less

P/N DESIGNATION:



SUGGESTED MOUNTING



Bend leads approximately 1/8" from body. If operating at or near rated power, standoffs are suggested to prevent overheating of the PCB. Utilize heavy duty copper traces adequate for intended current levels.