

Wirewound Resistors, Industrial Power, Tubular, Flat, Oval, Fixed, OVSF


FEATURES

- Terminal bands are spotwelded onto the insulated core and resistance-alloy wire is precisely wound onto the oval core
- The wire is spotwelded to the terminal bands and then “locked” onto the core with a silicone or cement coating
- Available as fixed and adjustable resistors (for adjustable Oval Resistor see www.vishay.com/doc?31836)
- Wirewound
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


**RoHS
COMPLIANT**

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | |
|------------------------------------|---------------------|----------------|---------------------------|----------------------------------|----------------|
| GLOBAL MODEL | HISTORICAL MODEL | POWER RATING W | RESISTANCE RANGE Ω | TOLERANCE ⁽¹⁾ \pm % | TERMINAL STYLE |
| OVSF0030 | 16-20 Ω Oval | 30 | 1.2 to 7.3K | 5 | A |
| OVSF0040 | 16-32 Ω Oval | 40 | 1.7 to 27K | 5 | A |
| OVSF0055 | 16-56 Ω Oval | 55 | 2.4 to 85K | 5 | A |
| OVSF0070 | 16-76 Ω Oval | 70 | 3.0 to 137K | 5 | A |
| OVSF0095 | 16-96 Ω Oval | 95 | 4.1 to 171K | 5 | A |

Notes

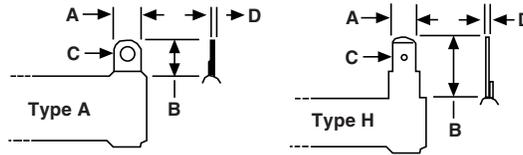
- Ratings are based on a temperature rise of 300 °C above an ambient of 40 °C.
- ⁽¹⁾ Standard fixed resistance tolerance \pm 5 %. Resistance values less than 1 Ω and adjustable have \pm 10 % tolerance. Closer tolerances available upon request.

| DERATING FOR GROUP INSTALLATIONS | | |
|----------------------------------|--------------------|--------------------|
| NUMBER OF RESISTORS STACKED | % OF SINGLE RATING | |
| | VERTICAL CHASSIS | HORIZONTAL CHASSIS |
| 2 | 80 | 75 |
| 3 | 70 | 60 |
| 4 | 65 | 50 |

Notes

- Ratings are based on mounting on a steel panel 10" x 10" x 0.040". Derate by 29 % when mounting on non-heat conductive surface.

| DIMENSIONS in inches (millimeters) | | | | |
|------------------------------------|----------------------------|---------------|----------------------|-----------------|
| | | | | |
| GLOBAL MODEL | DISTANCE BETWEEN TERMINALS | | OVERALL LENGTH | WEIGHT (TYP.) g |
| | A | L | | |
| OVSF0030 | 2 (50.8) | 1.25 (31.75) | = A + 0.625 (15.875) | 15 |
| OVSF0040 | 2.75 (69.85) | 2 (50.8) | = A + 0.625 (15.875) | 24 |
| OVSF0055 | 4.25 (107.95) | 3.5 (88.9) | = A + 0.625 (15.875) | 37 |
| OVSF0070 | 5.5 (139.7) | 4.75 (120.65) | = A + 0.625 (15.875) | 45 |
| OVSF0095 | 6.75 (171.45) | 6 (152.4) | = A + 0.625 (15.875) | 60 |

TERMINAL STYLE in inches (millimeters)


| DIMENSIONS | A (3/16" LUG) | H (1/4" SQC) |
|---------------|-----------------|----------------|
| Width (A) | 0.1875 (4.7625) | 0.25 (6.35) |
| Height (B) | 0.375 (9.525) | 0.625 (15.875) |
| Dia. (C) | 0.13 (3.302) | 0.065 (1.651) |
| Thickness (D) | 0.02 (0.508) | 0.032 (0.8128) |

MATERIAL SPECIFICATIONS

| | |
|--------------------|--|
| Element | Copper-nickel, nickel-chrome, iron-chrome-aluminum |
| Core | Steatite |
| Coating | High temperature silicone |
| Standard terminals | Nickel-iron |
| Part marking | Value, date code, MRC |

GLOBAL PART NUMBER INFORMATION

 Global Part Numbering example: **OVSF0070137K0JHB00** (OVSF0070 137K 5% 1/4SQC B)

| MODEL (2 digits) | COATING (1 digit) | TYPE (1 digit) | SIZE (4 digits) | VALUE (5 digits) | TOLERANCE (1 digit) | TERMINAL (1 digit) | PACKAGING (1 digit) | SPECIAL (2 digits) |
|---------------------|------------------------|---------------------|---|---|---|---|------------------------|--|
| OV | S = Silicone | F = Fixed | 0030 = 30 W 0095 = 95 W Available sizes: 0030 0040 0055 0070 0095 | R = Decimal K = Thousand R1500 = 0.15 Ω 1K500 = 1.5 kΩ Check datasheet for available value range | J = ± 5.0 % K = ± 10 % | A = 3/16" lug (3/16L) H = 1/4" single quick-connect (1/4SQC) | B = Bulk | 00 = Standard NI = Non-inductive NS = No strips and spacers |



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