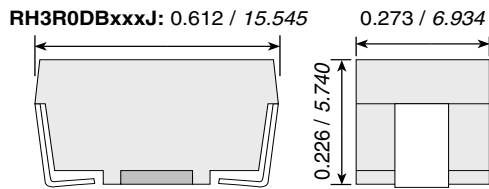
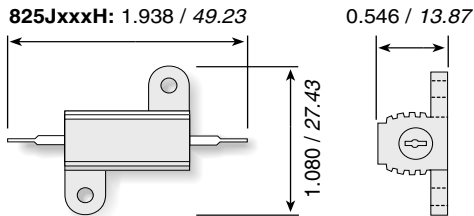
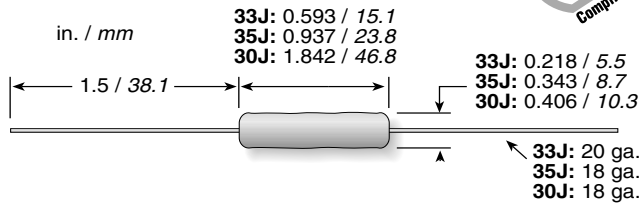


High Energy Wirewound Resistors

Axial Leaded / Surface Mount / Heat Sinkable Packaging



| | Type | Watts | Tolerance | Voltage |
|-------------|---------------|-------|-----------|---------|
| 33Jxxx | Axial | 3 | 5% | 200 |
| 35Jxxx | Axial | 5 | 5% | 460 |
| 30Jxxx | Axial | 10 | 5% | 1000 |
| 825JxxxH | Heat Sinkable | 25 | 5% | 520 |
| RH3R0DBxxxJ | Surface Mount | 3 | 5% | 200 |

Ohmite Manufacturing's family of **High Energy Wirewound Resistors** employ special winding techniques to maximize the effective joule rating of each resistor. Most wirewound resistors are wound with the objective of meeting the stated power (wattage) rating and keeping cost low through the use of automatic winding equipment. Typically, manufacturers will allow substitution of resistance wire,

depending on material availability. On tight tolerance wirewounds some type of abrasive adjustment to the resistance wire is often used to maximize production yields. Both of these procedures can adversely affect the joule rating and fusing current of a wirewound resistor, and this is often the reason that the manufacturer does not publish a fixed joule rating.

Ohmite **High Energy**

STANDARD PART NUMBERS

| Part Number | Ohms | Power | Energy (J) | Fusing Energy (J) | Current to fuse (A) | Power to fuse (W) |
|--------------|------|-------|------------|-------------------|---------------------|-------------------|
| 33J1R0 | 1 | 3 | 12.70 | 53.26 | 23.93 | 572.60 |
| 33J5R0 | 5 | 3 | 6.25 | 26.20 | 10.03 | 502.96 |
| 33J10R | 10 | 3 | 4.94 | 20.73 | 7.08 | 501.70 |
| 33J15R | 15 | 3 | 4.66 | 19.55 | 5.95 | 531.47 |
| 33J20R | 20 | 3 | 3.91 | 16.40 | 5.00 | 500.45 |
| 33J25R | 25 | 3 | 3.07 | 12.89 | 4.20 | 441.79 |
| 33J30R | 30 | 3 | 2.97 | 12.46 | 3.92 | 460.80 |
| 33J50R | 50 | 3 | 2.43 | 10.20 | 2.97 | 440.68 |
| 33J100 | 100 | 3 | 1.92 | 8.07 | 2.10 | 439.58 |
| 35J1R5 | 1.5 | 5 | 76.55 | 321.19 | 40.32 | 2438.48 |
| 35J2R5 | 2.5 | 5 | 64.65 | 271.23 | 31.59 | 2494.75 |
| 35J7R5 | 7.5 | 5 | 37.66 | 158.01 | 16.90 | 2141.89 |
| 35J12R | 12 | 5 | 37.90 | 158.99 | 14.20 | 2420.25 |
| 35J18R | 18 | 5 | 28.80 | 120.84 | 11.13 | 2228.50 |
| 35J22R | 22 | 5 | 27.48 | 115.29 | 10.03 | 2213.02 |
| 35J36R | 36 | 5 | 22.78 | 95.59 | 7.86 | 2222.93 |
| 35J47R | 47 | 5 | 23.22 | 97.42 | 7.08 | 2358.00 |
| 35J75R | 75 | 5 | 18.77 | 78.77 | 5.55 | 2309.77 |
| 30J2R0 | 2 | 10 | 162.30 | 680.93 | 47.98 | 4603.79 |
| 30J4R7 | 4.7 | 10 | 150.86 | 632.92 | 33.88 | 5395.94 |
| 30J6R8 | 6.8 | 10 | 137.27 | 575.91 | 28.47 | 5513.41 |
| 30J15R | 15 | 10 | 119.76 | 502.47 | 20.11 | 6065.77 |
| 30J27R | 27 | 10 | 85.27 | 357.74 | 14.20 | 5445.56 |
| 30J33R | 33 | 10 | 65.54 | 274.98 | 11.93 | 4700.40 |
| 30J50R | 50 | 10 | 62.45 | 262.03 | 10.03 | 5029.59 |
| 30J82R | 82 | 10 | 51.90 | 217.74 | 7.86 | 5063.34 |
| 30J100 | 100 | 10 | 49.41 | 207.28 | 7.08 | 5017.03 |
| 30J150 | 150 | 10 | 46.61 | 195.54 | 5.95 | 5314.71 |
| 825J1R0H | 1 | 25 | 51.04 | 214.12 | 40.32 | 1625.65 |
| 825J5R0H | 5 | 25 | 39.92 | 167.49 | 20.11 | 2021.92 |
| 825J10RH | 10 | 25 | 31.58 | 132.50 | 14.20 | 2016.87 |
| 825J25RH | 25 | 25 | 19.64 | 82.40 | 8.43 | 1776.01 |
| 825J36RH | 36 | 25 | 17.79 | 74.62 | 7.08 | 1806.13 |
| 825J47RH | 47 | 25 | 18.71 | 78.49 | 6.60 | 2049.57 |
| 825J75RH | 75 | 25 | 14.66 | 61.49 | 5.00 | 1876.69 |
| 825J100H | 100 | 25 | 12.29 | 51.56 | 4.20 | 1767.15 |
| 825J150H | 150 | 25 | 11.59 | 48.64 | 3.53 | 1872.00 |
| RH3R0DBR500J | 0.5 | 3 | 12.93 | 54.25 | 31.59 | 498.95 |
| RH3R0DB1R00J | 1 | 3 | 10.23 | 42.91 | 22.31 | 497.70 |
| RH3R0DB2R70J | 2.7 | 3 | 6.87 | 28.82 | 13.24 | 473.33 |
| RH3R0DB4R70J | 4.7 | 3 | 5.87 | 24.63 | 10.03 | 472.78 |
| RH3R0DB6R80J | 6.8 | 3 | 5.34 | 22.41 | 8.43 | 483.07 |
| RH3R0DB7R50J | 7.5 | 3 | 4.75 | 19.91 | 7.86 | 463.11 |
| RH3R0DB10R0J | 10 | 3 | 3.98 | 16.70 | 6.60 | 436.08 |
| RH3R0DB15R0J | 15 | 3 | 3.75 | 15.75 | 5.55 | 461.95 |
| RH3R0DB25R0J | 25 | 3 | 3.07 | 12.89 | 4.20 | 441.79 |
| RH3R0DB47R0J | 47 | 3 | 2.28 | 9.59 | 2.97 | 414.24 |
| RH3R0DB68R0J | 68 | 3 | 2.08 | 8.72 | 2.49 | 423.26 |
| RH3R0DB75R0J | 75 | 3 | 2.29 | 9.62 | 2.49 | 466.83 |

RoHS compliant product available Jan. 06 Add "E" suffix to part number to specify.

Wirewounds are hand wound in order to maintain the tightest possible pitch (space between windings) and thereby maximize the mass of the resistive element. Since no wire substitutions are allowed, and no abrasive adjusting is permitted in this family, Ohmite can publish a fixed joule rating and fusing current for each part number in the series.

This technique can be applied to any wirewound

product. In order to provide the broadest selection of packaging, Ohmite has developed standard offerings in three different package types-axial, SMD, and heat sinkable. Other sizes and types can be quoted on request, such as tubular power resistors. Non-inductive versions can also be supplied, along with the calculated joule rating, fusing current, and inductance to be expected.

High Energy Wirewound Resistors

Axial Leaded / Surface Mount / Heat Sinkable Packaging
(continued)

PERFORMANCE CHARACTERISTICS

