

# Euro-Power Wirewound Series

HIGH  
POWER

## Vitreous Enamel Power

Select Euro series fixed resistors for applications requiring wattage ratings from 72 to 1000 watts. Suitable for rugged applications, Euro-Power resistors are spot welded producing stronger mechanical and electrical connections. The vitreous enamel coating was specifically developed and provides protection against moisture and mechanical damage. Euro-Power resistors are equipped with lug terminals suitable for soldering or sturdy bolt connection. Mounting brackets not included with resistors.

### FEATURES

- Terminals suitable for soldering or bolt connection
- High wattage applications
- Rugged lead free vitreous enamel coating
- Flame resistant coating
- All-welded construction
- "Live" mounting option

### SERIES SPECIFICATIONS

| Series  | Wattage | Ohms      | Voltage | Construction | Non-Inductive versions available; Other sizes available; Also available in low cost Centohm or Silicone coating; Consult Ohmite. |
|---------|---------|-----------|---------|--------------|----------------------------------------------------------------------------------------------------------------------------------|
| EVFT119 | 72      | 0.4Ω-250K | 1400    | Round wire   |                                                                                                                                  |
| EVFT170 | 160     | 0.5Ω-100K | 2100    | Round wire   |                                                                                                                                  |
| EVFT252 | 280     | 0.2Ω-125K | 3300    | Round wire   |                                                                                                                                  |
| ESFT375 | 700     | 0.2Ω-200K | 5000    | Round wire   |                                                                                                                                  |
| EVRT170 | 200     | 0.10-18Ω  |         | Ribbon wire  |                                                                                                                                  |
| EVRT252 | 350     | 0.22-33Ω  |         | Ribbon wire  |                                                                                                                                  |
| ESRT375 | 1000    | 0.33-56Ω  |         | Ribbon wire  |                                                                                                                                  |

### CHARACTERISTICS

|                                        |                                                                                                                                                                |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Coating</b>                         | Lead free vitreous enamel. Very large models (700 watts and up) are supplied in Silicone Ceramic. Also available in low-cost Centohm coating; Consult factory. |
| <b>Core</b>                            | Tubular ceramic.                                                                                                                                               |
| <b>Terminals</b>                       | solder coated radial lug with RoHS composition solder                                                                                                          |
| <b>Derating</b>                        | Linearly from 100% @ +25°C to 0% @ +350°C.                                                                                                                     |
| <b>Tolerance</b>                       | ±5% 1Ω and over (J); ±10% under 1Ω (K)                                                                                                                         |
| <b>Power rating</b>                    | Based on 25°C free air rating.                                                                                                                                 |
| <b>Overload</b>                        | 10 times rated wattage for 5 seconds.                                                                                                                          |
| <b>Temperature coefficient</b>         | 1 to 20Ω: ±400 ppm/°C; Above 20Ω: ±260 ppm/°C; Ribbon wire: 400ppm/°C                                                                                          |
| <b>Dielectric withstanding voltage</b> | 1000 VAC: 72 to 160 watt rating. 3000 VAC: 280 to 700 watt rating (Measured from terminal to mounting bracket)                                                 |
| <b>To calculate max. amps</b>          | use the formula $\sqrt{P/R}$                                                                                                                                   |

### SOLDER TAB DIMENSIONS

(mm)



| Wattage    |             | L   | D    | C    | H ref. | J max. | Core Code |
|------------|-------------|-----|------|------|--------|--------|-----------|
| Round wire | Ribbon wire |     |      |      |        |        |           |
| 72         | N/A         | 119 | 20.3 | 9.2  | 14.3   | 39.4   | EM        |
| 160        | 200         | 170 | 25.5 | 12.4 | 15.9   | 45.9   | EN        |
| 280        | 350         | 252 | 30.6 | 17.5 | 19.1   | 54.1   | EP        |
| 700        | 1000        | 375 | 51.0 | 27.9 | 19.1   | 74.1   | ER        |

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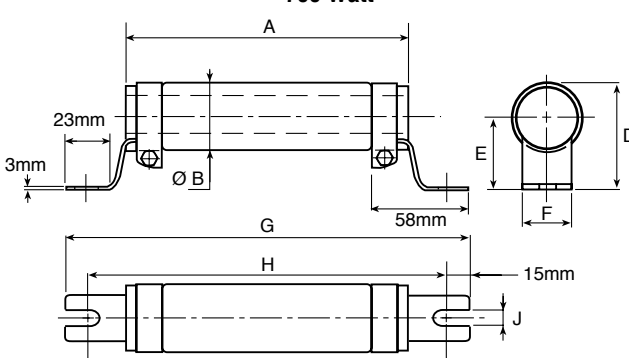
### LUG DIMENSIONS

(dimensions in millimeters)

160 and 280 Watt



700 Watt



| Watts      |             | A ±2 | Ø B max. | Ø C min. | D       | E       | F ±0.5 | G -4/+0 | H -4/+0 | J ±0.5 | Core code |
|------------|-------------|------|----------|----------|---------|---------|--------|---------|---------|--------|-----------|
| Round wire | Ribbon wire |      |          |          |         |         |        |         |         |        |           |
| 160        | 200         | 168  | 28       | 12       | 53.8 ±1 | 27 ±1   | 24     | 229     | 199     | 6.5    | EN        |
| 280        | 350         | 250  | 33       | 17       | 63 ±1   | 30 ±1   | 25     | 317     | 287     | 9      | EP        |
| 700        | 1000        | 373  | 53       | 27.1     | 80 max. | 51 ±1.5 | 30     | 432     | 405     | 9      | ER        |

### ORDERING INFORMATION

| Coating      |  | Terminal                |  | Core code |  | RoHS      |  |
|--------------|--|-------------------------|--|-----------|--|-----------|--|
| V = vitreous |  | T = Standard Solder tab |  | EM = 72W  |  | Compliant |  |
| S = silicone |  | L = Live bracket        |  | EN = 160W |  |           |  |
| C = centohm  |  |                         |  | EP = 280W |  |           |  |
|              |  |                         |  | ER = 700W |  |           |  |

|                     |          |                          |          |          |          |            |          |           |          |          |          |          |          |
|---------------------|----------|--------------------------|----------|----------|----------|------------|----------|-----------|----------|----------|----------|----------|----------|
| <b>E</b>            | <b>V</b> | <b>F</b>                 | <b>T</b> | <b>1</b> | <b>1</b> | <b>9</b>   | <b>E</b> | <b>M</b>  | <b>4</b> | <b>7</b> | <b>R</b> | <b>J</b> | <b>E</b> |
| Euro tubular series |          | Construction             |          | Length   |          | Resistance |          | Tolerance |          |          |          |          |          |
|                     |          | F = fixed roundwire      |          | (mm)     |          | 4R7 = 4.7Ω |          | J = 5%    |          |          |          |          |          |
|                     |          | A = adjustable roundwire |          |          |          |            |          |           |          |          |          |          |          |
|                     |          | R = fixed ribbon wire    |          |          |          |            |          |           |          |          |          |          |          |

#### Standard Part numbers for Fixed Roundwire Euro series

|                |                |                |                |
|----------------|----------------|----------------|----------------|
| EVFT119EM10RJE | EVFT170EN10RJE | EVFT252EP10RJE | ESFT375ER10RJE |
| EVFT119EM100JE | EVFT170EN100JE | EVFT252EP100JE | ESFT375ER100JE |
| EVFT119EM1K0JE | EVFT170EN1K0JE | EVFT252EP1K0JE | ESFT375ER1K0JE |
| EVFT119EM10KJE | EVFT170EN10KJE | EVFT252EP10KJE | ESFT375ER10KJE |
| EVFT119EM4R7JE | EVFT170EN4R7JE | EVFT252EP4R7JE | ESFT375ER4R7JE |
| EVFT119EM47RJE | EVFT170EN47RJE | EVFT252EP47RJE | ESFT375ER47RJE |
| EVFT119EM470JE | EVFT170EN470JE | EVFT252EP470JE | ESFT375ER470JE |
| EVFT119EM4K7JE | EVFT170EN4K7JE | EVFT252EP4K7JE | ESFT375ER4K7JE |

#### Standard Part numbers for Fixed Ribbon wire Euro series

|                |                |                |
|----------------|----------------|----------------|
| EVRT252EPR22KE | EVRT170EN2R2JE | ESRT375ER2R2JE |
| EVRT252EPR22KE | EVRT170ENR10KE | ESRT375ER4R7JE |
| EVRT252EP1R0JE | EVRT170EN4R7JE | ESRT375ER1R0JE |
| EVRT252EP2R2JE | EVRT170EN1R0JE | ESRT375ER10RJE |
| EVRT252EP10RJE | EVRT170EN10RJE | ESRT375ER22RJE |
| EVRT252EP22RJE | EVRT170ENR47KE | ESRT375ERR47KE |
| EVRT252EP4R7JE | EVRT170ENR22KE | ESRT375ER47RJE |