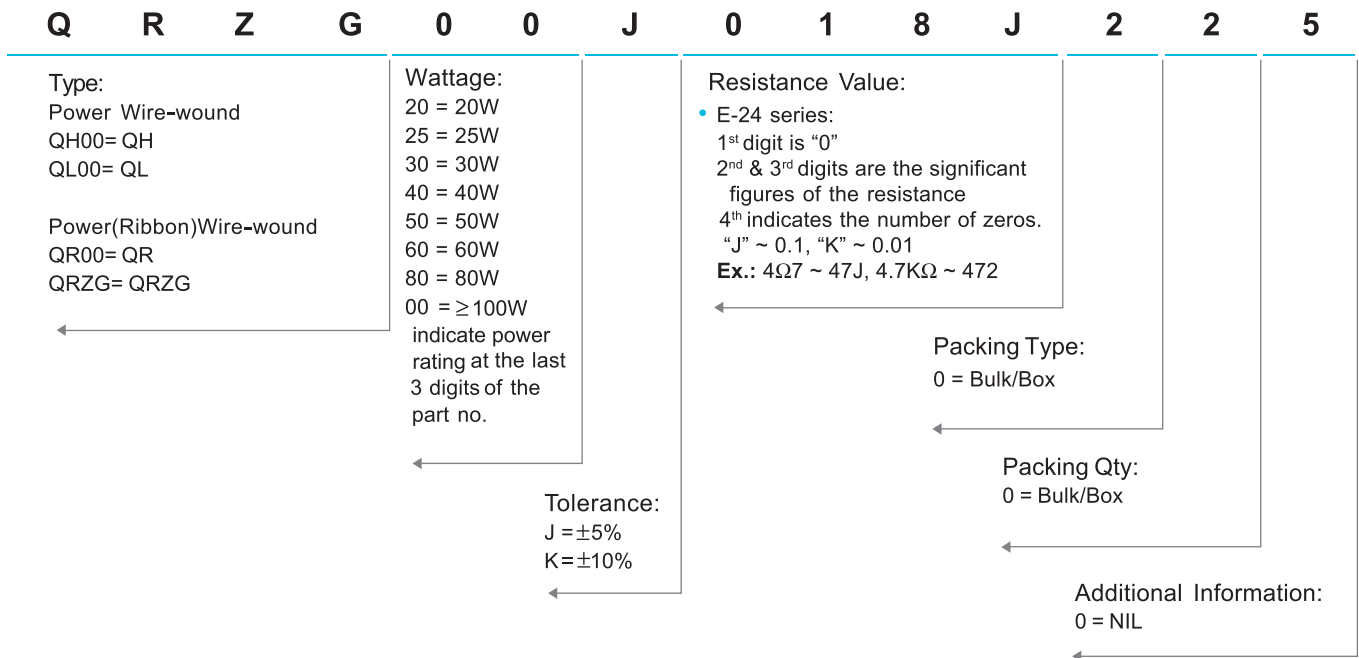


## Power (Ribbon) Wire Wound Resistors

### Performance Specification

|                              |  |
|------------------------------|--|
| Temperature Coefficient      | <20Ω±400PPM/°C; ≥20Ω ±300PPM/°C.                           |
| Short Time Overload          | ±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage. |
| Terminal Strength            | No evidence of mechanical damage.                          |
| Resistance to Soldering Heat | ±(1.0% + 0.05Ω)Max, with no evidence of mechanical damage. |
| Solderability                | Min. 95% coverage.   |
| Load Life in Humidity        | ±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage. |
| Load Life                    | ±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage. |

### Ordering Procedure: Ex.: QRZG 225W,+/- 5%, 1.8Ω, B/B



Remark: Power Rating ≥ 100 Watt, please indicate the power rating in the last 3 digits as follows.

100 = 100W    300 = 300W    120 = 120W    450 = 450W  
225 = 225W    600 = 600W    A00 = 1,000W



## Power (Ribbon) Wire Wound Resistors

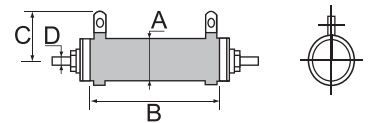
### Features

- Multi-terminal types and variable types available
- Capable of carrying high power load
- Resistance value unchanged after long use. Good resistivity to short time overload
- High resistance to heat & low temperature coefficient, Resistance and temperature change is linear
- Too low or too high ohmic value can be supplied on a case to case basis

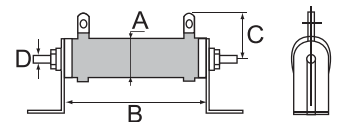


| QL/QH Type      |              |                      |                |       |     |     |                  |
|-----------------|--------------|----------------------|----------------|-------|-----|-----|------------------|
| Part no.        | Style        | Power Rating at 70°C | Dimension (mm) |       |     |     | Resistance Range |
|                 |              |                      | A±2            | B     | C±1 | D±1 |                  |
| QH / QL0020     | QH / QL 20W  | 20W                  | 22             | 50±1  | 19  | 5   | 1Ω ~ 10KΩ        |
| QH / QL0025     | QH / QL 25W  | 25W                  | 22             | 60±1  | 19  | 5   | 2Ω ~ 12KΩ        |
| QH / QL0030     | QH / QL 30W  | 30W                  | 22             | 75±1  | 19  | 5   | 2Ω ~ 15KΩ        |
| QH / QL0040     | QH / QL 40W  | 40W                  | 22             | 90±1  | 19  | 5   | 2Ω ~ 20KΩ        |
| QH / QL0050     | QH / QL 50W  | 50W                  | 31             | 75±1  | 31  | 5   | 3Ω ~ 25KΩ        |
| QH / QL0060     | QH / QL 60W  | 60W                  | 31             | 90±1  | 31  | 5   | 3Ω ~ 30KΩ        |
| QH / QL0080     | QH / QL 80W  | 80W                  | 31             | 115±2 | 31  | 5   | 3Ω ~ 40KΩ        |
| QH / QL00...100 | QH / QL 100W | 100W                 | 31             | 140±2 | 31  | 5   | 3Ω ~ 50KΩ        |
| QH / QL00...120 | QH / QL 120W | 120W                 | 31             | 165±2 | 31  | 5   | 4Ω ~ 60KΩ        |
| QH / QL00...150 | QH / QL 150W | 150W                 | 31             | 195±2 | 31  | 5   | 4Ω ~ 70KΩ        |
| QH / QL00...200 | QH / QL 200W | 200W                 | 31             | 254±2 | 31  | 5   | 5Ω ~ 100KΩ       |
| QH / QL00...300 | QH / QL 300W | 300W                 | 43             | 254±2 | 33  | 5   | 8Ω ~ 150KΩ       |
| QH / QL00...400 | QH / QL 400W | 400W                 | 43             | 330±3 | 38  | 5   | 10Ω ~ 200KΩ      |
| QH / QL00...600 | QH / QL-600W | 600W                 | 43             | 420±3 | 38  | 5   | 10Ω ~ 200KΩ      |

QH TYPE

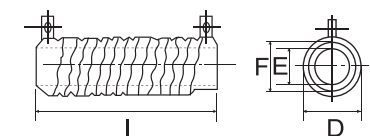


QL TYPE

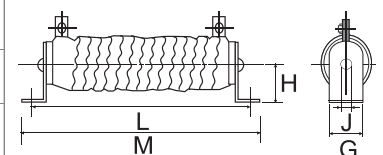


| QR / QRZG Type               |          |                |     |     |     |     |     |       |     |     |                  |
|------------------------------|----------|----------------|-----|-----|-----|-----|-----|-------|-----|-----|------------------|
| Part No.                     | Max Watt | Dimension (mm) |     |     |     |     |     |       |     |     | Resistance Range |
|                              |          | D±1            | E±1 | F±1 | G±1 | H±1 | J±1 | I     | L±1 | M±1 |                  |
| QR00....120<br>QRZG....120   | 120W     | 33             | 16  | 28  | 26  | 22  | 6   | 115±2 | 148 | 167 | 0.2Ω ~ 4Ω        |
| QR00....150<br>QRZG....150   | 150W     | 33             | 16  | 28  | 26  | 22  | 6   | 140±2 | 173 | 192 | 0.3Ω ~ 5Ω        |
| QR00....180<br>QRZG....180   | 180W     | 33             | 16  | 28  | 26  | 22  | 6   | 165±2 | 198 | 217 | 0.3Ω ~ 6Ω        |
| QR00....225<br>QRZG....225   | 225W     | 33             | 16  | 28  | 26  | 22  | 6   | 195±2 | 228 | 247 | 0.4Ω ~ 8Ω        |
| QR00....300<br>QRZG....300   | 300W     | 33             | 16  | 28  | 26  | 22  | 6   | 254±2 | 287 | 306 | 0.5Ω ~ 10Ω       |
| QR00....450<br>QRZG....450   | 450W     | 48             | 25  | 40  | 40  | 40  | 9   | 254±2 | 308 | 334 | 0.8Ω ~ 15Ω       |
| QR00....600<br>QRZG....600   | 600W     | 48             | 25  | 40  | 40  | 40  | 9   | 330±3 | 384 | 410 | 1Ω ~ 20Ω         |
| QR00....750<br>QRZG....750   | 750W     | 55             | 30  | 50  | 50  | 50  | 9   | 300±3 | 369 | 377 | 1Ω ~ 75Ω         |
| QR00....1000<br>QRZG....1000 | 1000W    | 55             | 30  | 50  | 50  | 50  | 9   | 390±3 | 458 | 466 | 1Ω ~ 100Ω        |

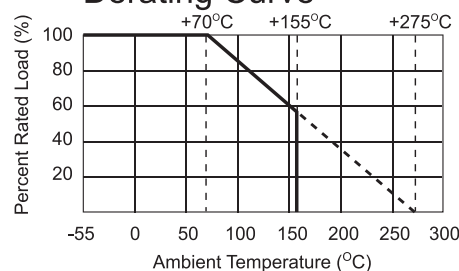
QR TYPE



QRZG TYPE



### Derating Curve



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