

不燃性角形巻線固定抵抗器  
Non Flammable Square Wire-Wiund Fixed Resistor

**SQY** series



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Please see the digital brochure.**

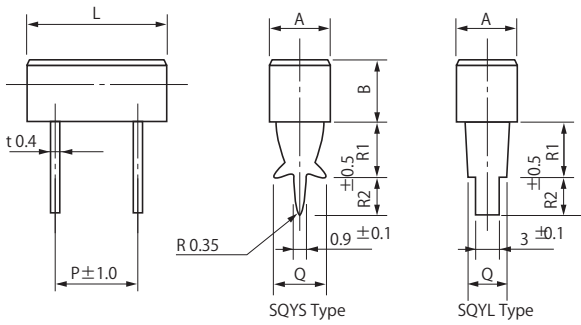
|  |  |   |
|--|--|---|
| 抵抗温度特性<br>Temperature coefficient      | 20Ω ≤ ±260ppm/°C max. (常温 Normal temp. ~ 常温 Normal temp.+ 100°C)<br>20Ω > ±400ppm/°C max. (常温 Normal temp. ~ 常温 Normal temp.+ 100°C) |   |
| 定格負荷<br>Power rating load              | △R/R ≤ ± (1%+0.05Ω)<br>最高表面温度 (Max. surface temp. rise) 275°C or 315°C max.  |   |
| 短時間過負荷<br>Short-time overload          | アーク焼損等の異常なきこと<br>No evidence of arc damage etc.<br>△R/R ≤ ± (2%+0.05Ω)   | 定格電力×10倍 5秒間負荷<br>1000% of rated power load for 5 seconds           |
| 絶縁抵抗<br>Insulation resistance          | 20MΩ min.  | DC500V  |
| 耐電圧<br>Dielectric withstanding voltage | 機械的損傷及び絶縁破壊なきこと<br>No evidence of mechanical damage or insulation breakdown  | AC1500V for one minute  |
| 端子強度<br>Terminal strength              | 機械的損傷なきこと<br>No evidence of mechanical damage  | 引張り (Pull)<br>44N for 30 seconds                                    |
| 抵抗体強度<br>Resistor strength             | 機械的損傷なきこと<br>No evidence of mechanical damage  | 5W~15W 98N for 10 seconds   |
| 耐振性 (SQYS7W以上は除く)<br>Vibration         | 機械的損傷なきこと<br>No evidence of mechanical damage  | 1.5mm 10~55Hz / one minute<br>X, Y and Z each direction for 2 hours |
| 半田付け性<br>Solderability                 | 75%以上新しい半田で覆われること<br>75% coverage min. with new solder   | 250°C for 3 seconds   |

■ 耐候的特性 Environmental characteristics

| 特性<br>Characteristics                          | 規格値<br>Standards   | 試験方法<br>Test methods   |
|--|--|--|
| 耐熱性<br>Heat resistance                         | 標印、絶縁被覆に著しい損傷なきこと<br>No deterioration of protective coatings or markings   | 275°C or 315°C for 2 hours   |
| 熱衝撃<br>Thermal shock                           | 機械的損傷なきこと<br>No evidence of mechanical damage<br>△R/R ≤ ± (2%+0.05Ω)   | 定格負荷30分間 → -30°C 15分間<br>Power rating load 30 minutes →<br>-30°C for 15 minutes      |
| 耐湿性 (定常状態)<br>Humidity (Steady state)          | 標印、絶縁被覆に異常なきこと<br>No deterioration of protective coatings or markings<br>△R/R ≤ ± (3%+0.05Ω)<br>絶縁抵抗 (Insulation resistance) 2.5MΩ min | 成極DC100V<br>40°C 95%RH for 1000 hours  |
| 耐久性 (耐湿負荷)<br>Durability (Moisture resistance) | 標印、絶縁被覆に異常なきこと<br>No deterioration of protective coatings or markings<br>△R/R ≤ ± (3%+0.05Ω)   | 10%負荷 10% of rated power load<br>90 minutes ON and 30 minutes OFF<br>for 500 hours   |
| 耐久性 (定格負荷)<br>Durability (Nominal load)        | 標印、絶縁被覆に異常なきこと<br>No deterioration of protective coatings or markings<br>△R/R ≤ ± (5%+0.05Ω)   | 100%負荷 100% of rated power load<br>90 minutes ON and 30 minutes OFF<br>for 500 hours |
| 難燃性 (過負荷)<br>Flame resistance (Over load)      | 燃焼しないこと<br>No evidence of flaming or arcing  | 定格電力の1~2倍<br>100~200% of rated power load  |

■規格 Standards

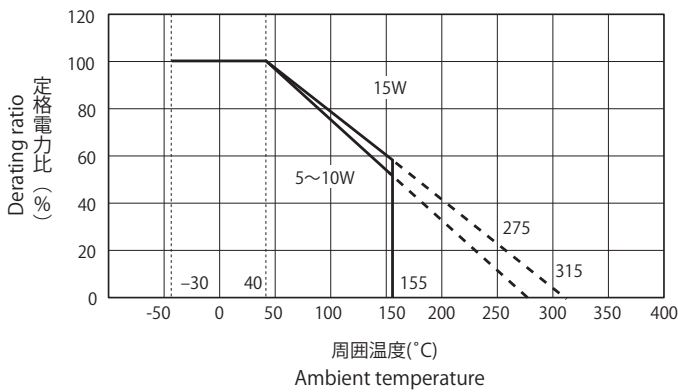
●形状・寸法 Configuration (mm)



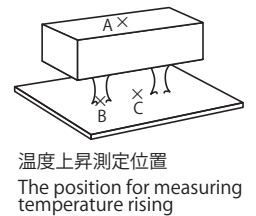
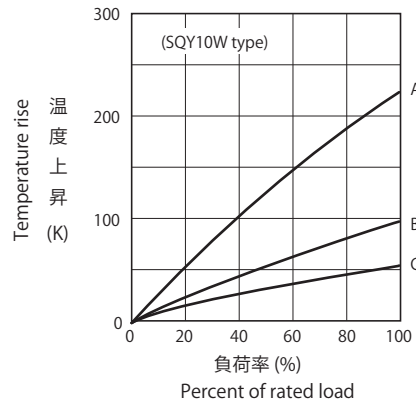
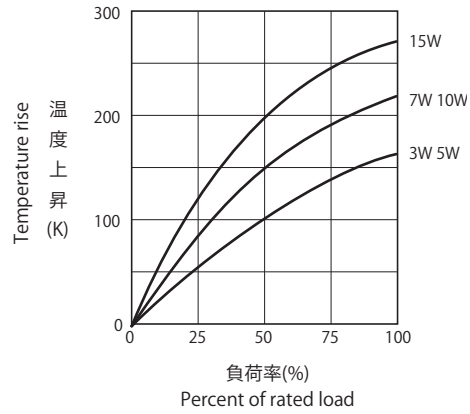
| 形状 Type | 定格電力 (W) Power Rating | 寸法 Dimensions (mm) |      |     |     |     |    |      | 抵抗値範囲 (Ω) Resistance Range |
|---------|-----------------------|--------------------|------|-----|-----|-----|----|------|----------------------------|
|         |                       | A                  | B    | Q   | R1  | R2  | L  | P    |                            |
| SQYS 5W | 5                     | 10.0               | 9.5  | 4.5 | 11  | 4.5 | 22 | 10.5 | 0.18~820                   |
| 7W      | 7                     | 10.0               | 9.5  | 4.5 | 11  | 4.5 | 35 | 22.5 | 0.47~1.8k                  |
| 10W     | 10                    | 10.0               | 9.5  | 4.5 | 11  | 4.5 | 48 | 35.5 | 0.68~2.7k                  |
| 15W     | 15                    | 12.5               | 11.5 | 6.5 | 11  | 4.5 | 48 | 30.0 | 0.68~3.3k                  |
| SQYL 5W | 5                     | 10.0               | 9.5  | 4.0 | 5.5 | 3.5 | 22 | 10.5 | 0.18~820                   |
| 7W      | 7                     | 10.0               | 9.5  | 4.0 | 5.5 | 3.5 | 35 | 22.5 | 0.47~1.8k                  |
| 10W     | 10                    | 10.0               | 9.5  | 4.0 | 5.5 | 3.5 | 48 | 35.5 | 0.68~2.7k                  |
| 15W     | 15                    | 12.5               | 11.5 | 5.5 | 11  | 4.5 | 48 | 30.0 | 0.68~3.3k                  |

※一般公差は±1.0  
General Tolerance ±1.0

●定格電力軽減曲線 Power Derating Curve



●表面温度上昇 Surface Temperature Rise



■標準抵抗値

Standard resistance values JIS-E24 series

■抵抗値許容差

Resistance tolerance  $R \geq 1\Omega \dots \pm 5\%$  (J)

$R < 1\Omega \dots \pm 10\%$  (K)

■受注生産品 Products by order

■品番コード Explanation of Part Number

SQYL 7W 100 K / RO

