

不燃性角形巻線固定抵抗器

Non Flammable Square Wire-Wound
Fixed Resistor

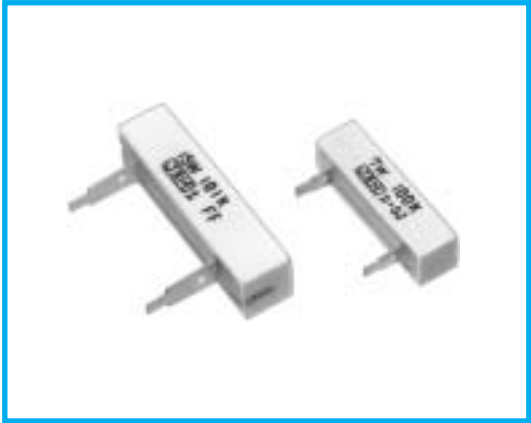
SQY series

■プリント基板自立実装タイプ

■PCB Direct mounting type

■RoHS対応品

■RoHS Complied



■電氣的、機械的特性 Electrical and mechanical characteristics

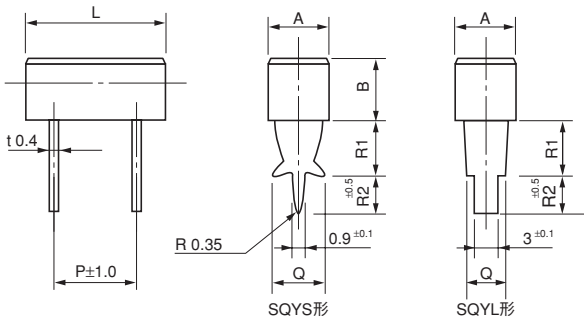
特性 Characteristics	規格値 Standards	試験方法 Test methods
抵抗値と抵抗値許容差 Resistance and Resistance tolerance	抵抗値許容差 Resistance tolerance 1Ω ≤ ±5% (J) 1Ω > ±10% (K)	
抵抗温度特性 Temperature coefficient	20Ω ≤ ±260ppm/°C max. 20Ω > ±400ppm/°C max.	
定格負荷 Power rating load	△R/R ≤ ± (1%+0.05Ω) 表面温度上昇 (temperature) 315°C max.	
短時間過負荷 Short-time overload	アーク焼損等の異常なきこと no evidence of arc damage etc. △R/R ≤ ± (2%+0.05Ω)	10倍 5秒間負荷 1000% rated power 5 seconds
絶縁抵抗 Insulation resistance	20MΩ min.	DC500V
耐電圧 Dielectric withstanding voltage	機械的損傷及び絶縁破壊なきこと no evidence of mechanical damage or insulation breakdown	AC1500V 1 minute
端子強度 Terminal strength	機械的損傷なきこと no evidence of mechanical damage	引張り強さ (Pull Test) 44N 30 seconds
抵抗体強度 Resistor strength	機械的損傷なきこと no evidence of mechanical damage	5W~15W 98N 10 seconds
耐振性(SQYS 7W以上は除く) Vibration	機械的損傷なきこと no evidence of mechanical damage	1.5mm 10~55Hz/1 minute X, Y, Z 2 hours
半田付け性 Solderability	75%以上新しい半田で覆われること 75% coverage min. with new solder	250°C 3 seconds

■耐候的特性 Environmental characteristics

特性 Characteristics	規格値 Standards	試験方法 Test methods
耐熱性 Heat resistance	標印、絶縁被覆に著しい損傷なきこと no deterioration of protective coatings or markings	315°C 2 hours
熱衝撃 Thermal shock	機械的損傷なきこと no evidence of mechanical damage △R/R ≤ ± (2%+0.05Ω)	定格負荷30分間 → -30°C 15分間 power rating load 30 minutes → -30°C 15 minutes
耐湿性 (定常状態) Humidity (Steady state)	標印、絶縁被覆に異常なきこと no deterioration of protective coatings or markings △R/R ≤ ± (3%+0.05Ω) 絶縁抵抗 (Insulation resistance) 2.5MΩ min.	成極DC100V 40°C 95%RH 500 hours
耐久性 (耐湿負荷) Durability (Moisture resistance)	標印、絶縁被覆に異常なきこと no deterioration of protective coatings or markings △R/R ≤ ± (3%+0.05Ω)	500 hours 10%負荷 rated power load 90 minutes ON 30 minutes OFF
耐久性 (定格負荷) Durability (Nominal load)	標印、絶縁被覆に異常なきこと no deterioration of protective coatings or markings △R/R ≤ ± (5%+0.05Ω)	40°C 95%RH 500 hours 100%負荷 rated power load 90 minutes ON 30 minutes OFF
難燃性 (過負荷) Flame resistance (Over load)	燃焼しないこと no evidence of flaming or arcing	定格電力の1~6倍 100~600% rated power load

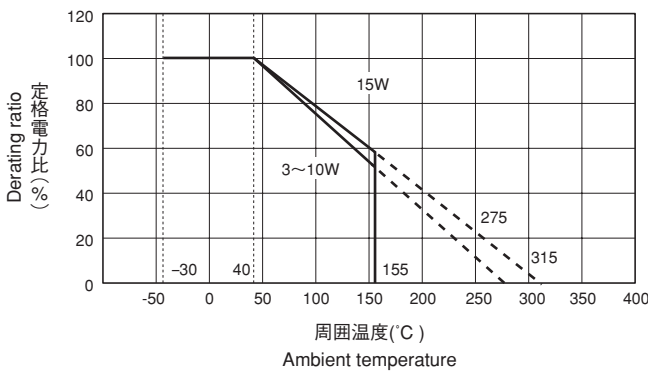
■規格 Standards

●形状・寸法 Configuration (mm)

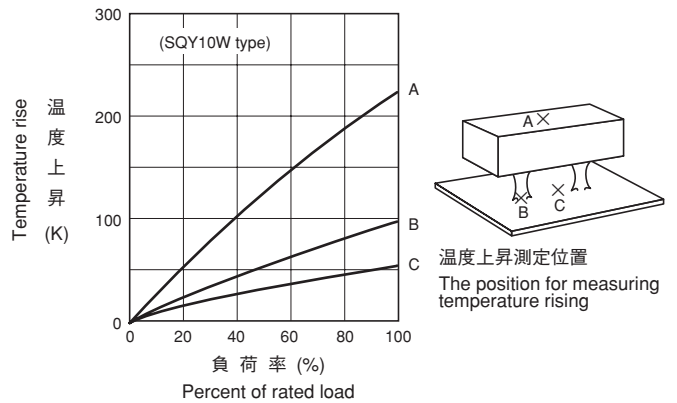
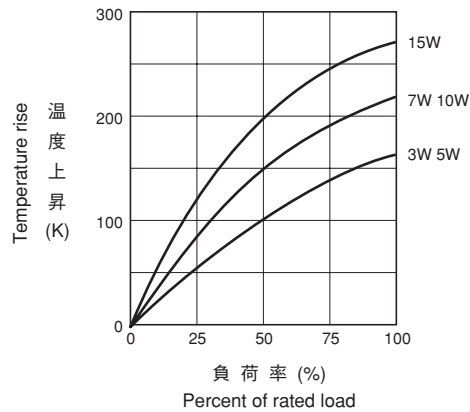


形状 Type	定格電力 (W) Power Rating	寸法 Dimensions (mm)							抵抗値範囲 (Ω) Resistance Range
		A	B	Q	R1	R2	L	P	
SQYS 5W	5	10.0	9.5	4.5	11	4.5	22	10.5	0.18~800
7W	7	10.0	9.5	4.5	11	4.5	35	22.5	0.47~1.6k
10W	10	10.0	9.5	4.5	11	4.5	48	35.5	0.68~2k
15W	15	12.5	11.5	6.5	11	4.5	48	30.0	0.68~2.5k
SQYL 5W	5	10.0	9.5	4.0	5.5	3.5	22	10.5	0.18~800
7W	7	10.0	9.5	4.0	5.5	3.5	35	22.5	0.47~1.6k
10W	10	10.0	9.5	4.0	5.5	3.5	48	35.5	0.68~2k
15W	15	12.5	11.5	5.5	11	4.5	48	30.0	0.68~2.5k

●定格電力軽減曲線 Power Derating Curve



●表面温度上昇 Temperature Rise



■標準抵抗値 (Ω)

Standard resistance values JIS-E24 series

抵抗値許容差

Resistance tolerance

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

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

■受注生産品 Products by order

■品番コード Explanation of Part Number

SQYL 7W 100 K / RO

