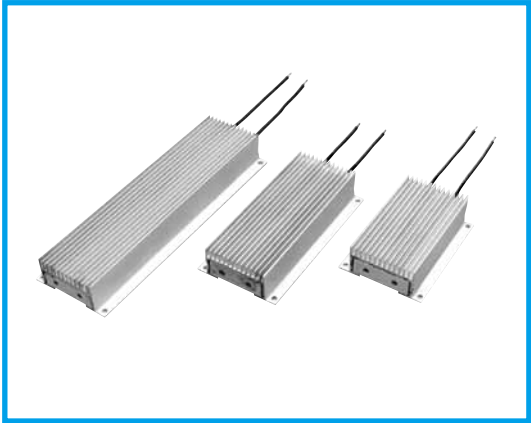


大型メタルクラッド固定抵抗器
Large Capacity Metal-Clad Fixed Resistor

SML series



- 大容量 ■ High power
- シャーシ取付タイプ ■ Chassis Installation Type
- RoHS 対応品 ■ RoHS Complied

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

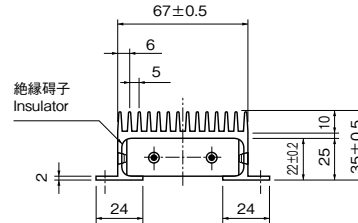
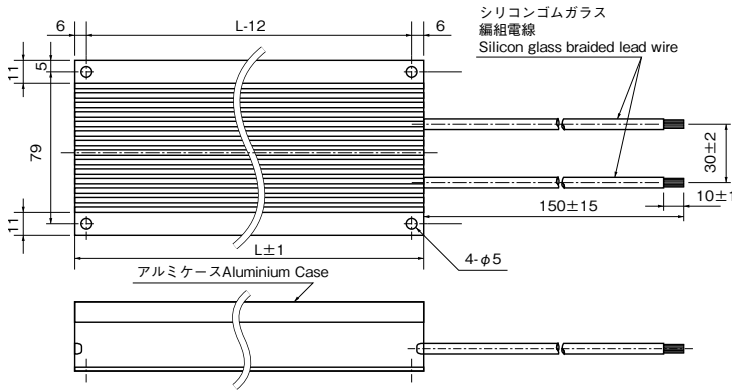
特性 Characteristics	規格値 Standards	試験方法 Test methods
抵抗値と抵抗値許容差 Resistance and Resistance tolerance	公称抵抗値 抵抗値許容差 Resistance Resistance tolerance nominal tolerance 1Ω ≤ R ± 5% (J) 1Ω > R ± 10% (K)	
抵抗温度特性 Temperature coefficient	±200ppm/°C max.	
定格負荷 Power rating load	△R/R ≤ ±(1% + 0.05Ω) 表面温度上昇 (temperature) 350°C max.	
短時間負荷 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)	JRM規格 JRM Standard
絶縁抵抗 Insulation resistance	100MΩ 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 △R/R ≤ ±(0.1% + 0.05Ω)	AC2000V 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(Pull) 98N 30±5 seconds 曲げ(Bent) 14.7N 5 cycles
抵抗体強度 Resistor strength	機械的損傷なきこと no evidence of mechanical damage	196N 30 seconds
耐振性 Vibration	機械的損傷なきこと no evidence of mechanical damage △R/R ≤ ±(1% + 0.05Ω)	1.5mm 10~55Hz / 1 minute X, Y, Z 2hours each

■ 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 of markings	350°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 → -40°C 15分間 power rating load 30 minutes → -40°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 of markings △R/R ≤ ±(2% + 0.05Ω)	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 of markings △R/R ≤ ±(5% + 0.05Ω)	10%負荷 rated power load 90 minutes ON 30 minutes OFF 40°C 95%RH 500 hours
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 of markings △R/R ≤ ±(5% + 0.05Ω)	100%負荷 rated power load 90 minutes ON 30 minutes OFF 20°C 500 hours
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 (mm) Dimensions L	抵抗値範囲 (Ω) Resistance Range	リード寸法 (mm) Lead length
	空間使用 Used in space	放熱板付 Heat sink	風冷 Air cooling			
SML150	150	250	350	125	0.22~13k	2mm ϕ ×150
200	200	350	450	175	0.33~15k	
250	250	450	550	225	0.43~20k	
300	300	500	650	270	0.51~24k	
350	350	600	800	350	0.30~36k	

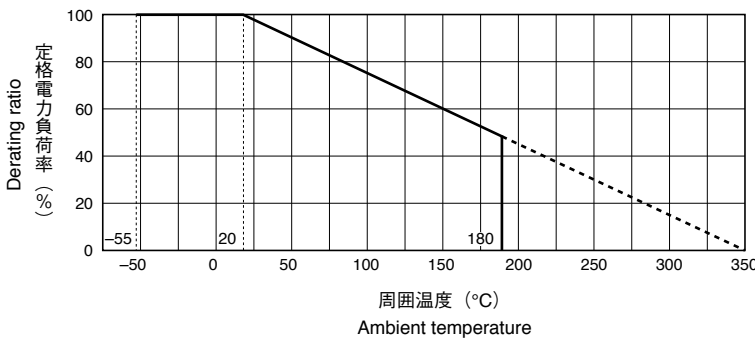
※定格電力について:
放熱板付は(材質:アルミ 大きさ:600×600×t3(mm)) 取り付けでの電力、風冷は放熱板+リード線側から1m/Sの風速条件での電力です。
負荷条件は最大30分連続負荷としています。

※Power Rating:
The above "Heat sink" is measured that the resistor is installed on the aluminium heat sink plate of 600X600Xt3(mm).
The "Air cooling" is measured under the airflow of 1m/sec. from the resistor's lead wire side, which is installed on the heat sink plate.
Load condition is continued in 30min. max.

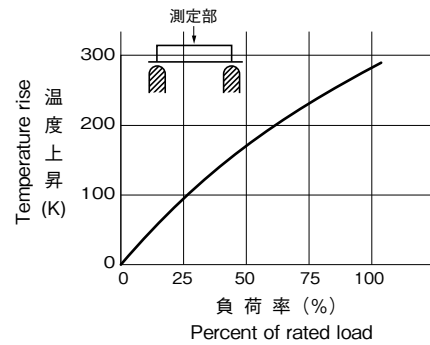
※抵抗素子数、リード線引き出し方向についてはカスタムオーダーが可能です。
御検討の際は御要求諸元、御使用環境、御使用条件等、御提示頂きますようお願いいたします。

We can provide a product which suits your individual requirements regarding the number of resistance devices and direction of leads.
When placing an order, please provide us the following information: operating conditions, required specifications and any other requests.

●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 1、2、3、5 + E24 series

抵抗値許容差 R \geq 1 Ω ----- \pm 5%(J)
Resistance tolerance R<1 Ω ----- \pm 10%(K)

■受注生産品 Products by order

■品番コード Explanation of Part Number

SML (K) 150 101 K / RO (個別仕様 Customer Specification)

