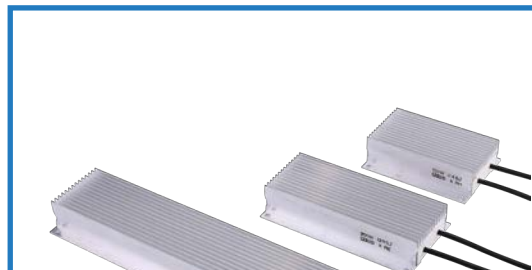


大型メタルクラッド固定抵抗器
Large Capacity Metal-Clad Fixed Resistor

SML series



[こちらをクリック / Click here](#)

デジタルカタログにてご覧ください
Please see the digital brochure.

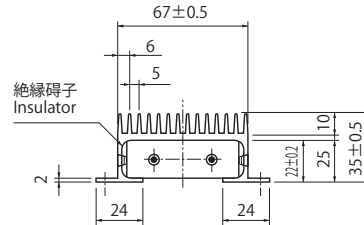
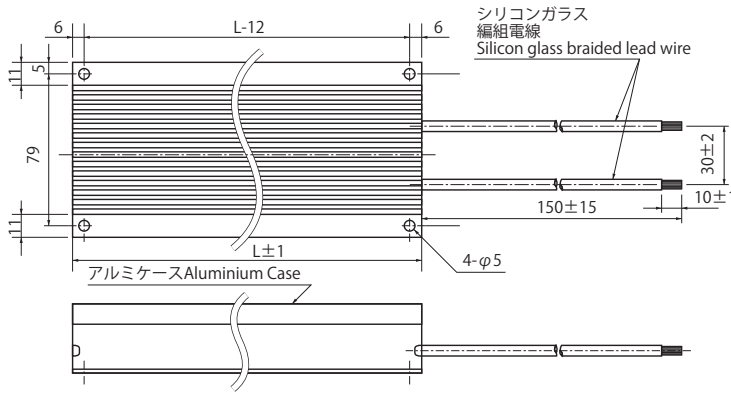
抵抗温度特性 Temperature coefficient	±200ppm/°C max. (常温 Normal temp. ~ 常温 Normal temp.+ 100°C)	
定格負荷 Power rating load	$\Delta R/R \leq \pm (1\% + 0.05\Omega)$ 最高表面温度 (Max. surface temp. rise) 350°C max.	
短時間負荷 Short-time overload	アーク焼損等の異常なきこと No evidence of arc damage etc. $\Delta R/R \leq \pm (1\% + 0.05\Omega)$	定格電力×10倍 5秒間負荷 1000% of rated power load for 5 seconds
絶縁抵抗 Insulation resistance	100M Ω 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 $\Delta R/R \leq \pm (1\% + 0.05\Omega)$	AC2000V for one 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 for 30±3 seconds 曲げ(Bend) with 14.7N for 5 cycles
抵抗体強度 Resistor strength	機械的損傷なきこと No evidence of mechanical damage	196N for 30±3 seconds
耐振性 Vibration	機械的損傷なきこと No evidence of mechanical damage $\Delta R/R \leq \pm (1\% + 0.05\Omega)$	1.5mm 10~55Hz / for one minute X, Y and Z each direction for 2 hours

■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	350°C for 2 hours
熱衝撃 Thermal shock	機械的損傷なきこと No evidence of mechanical damage $\Delta R/R \leq \pm (2\% + 0.05\Omega)$	定格負荷30分間 → -55±3°C 15分間 Power rating load for 30 minutes → -55±3°C for 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 $\Delta R/R \leq \pm (2\% + 0.05\Omega)$ 10M Ω min	DC100V 40°C 95%RH for 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 $\Delta R/R \leq \pm (2\% + 0.05\Omega)$	10%負荷 10% of rated power load 90 minutes ON and 30 minutes OFF 40°C 95%RH for 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 $\Delta R/R \leq \pm (5\% + 0.05\Omega)$	100%負荷 100% of rated power load 90 minutes ON and 30 minutes OFF 20°C for 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% 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 (mm) Dimensions L	抵抗値範囲 (Ω) Resistance Range	リード寸法 (mm) Lead length
	空間 Free air	放熱板付 Heat sink	風冷 Air cooling			
SML150	150	250	350	125	0.22~13k	2mm ² ×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	

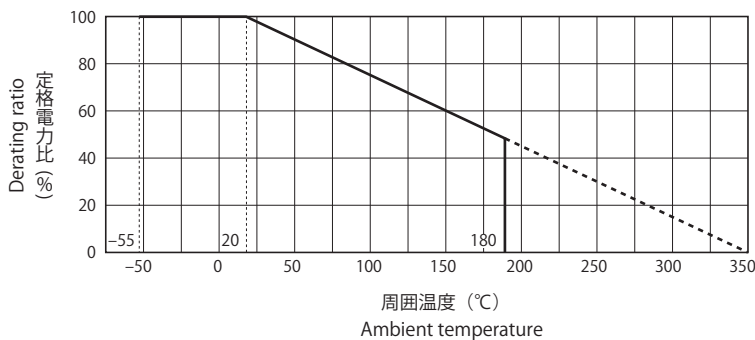
※定格電力について：
放熱板付は（材質:アルミ 大きさ:600×600×t3(mm)）取付けでの電力、風冷は放熱板+リード線側から1m/sの風速条件での電力です。負荷条件は最大30分連続負荷としています。

※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.

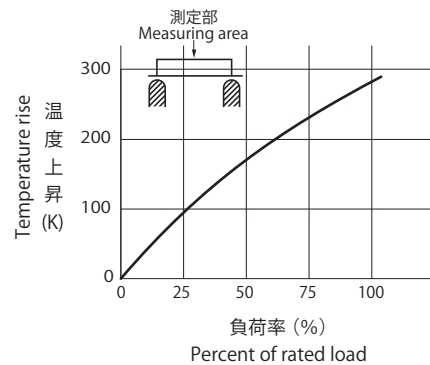
※抵抗素子数、リード線引き出し方向についてはカスタムオーダーが可能です。御検討の際は御要求諸元、御使用環境、御使用条件等、御提示頂きますようお願いいたします。

We can provide a product which suits your individual requirements regarding the number of resistor elements 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 Surface Temperature Rise



■標準抵抗値

Standard resistance values 1・2・3・5 + 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

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

