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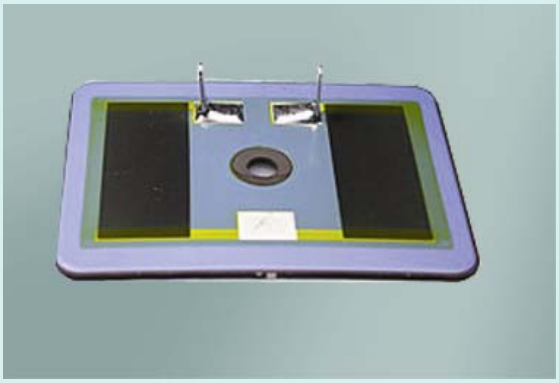
technology matters

DATA SHEET

Power resistor (stainless steel)
Model PLR 300



Features

- high adiabatic impulse
- small size
- easy to assemble
- low inductivity
- RoHs compliant

Applications

- brake resistor
- capacity discharge
- heating resistor
- snubber resistor

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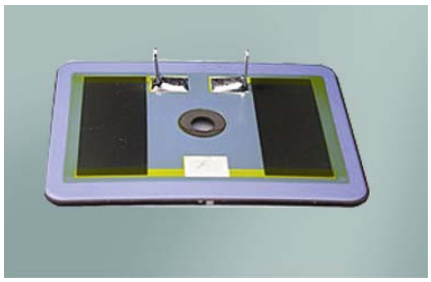
Model PLR 300



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Electrical Characteristics

Power Rating	40 W in free air	
	300 W on heat sink	
	thermal resistance 0.5°C/W	
	force cooled at 5 m/s air velocity for 50000 cycles	
Pulse Power	8 x P(nom) < 1s	
Resistance range	3 Ω ... 10 K Ω	(1)
Resistance tolerance	± 10% (5%)	(1)
Dielectric strength	2000 V, 25°C, 75 relative humidity	
Peak voltage	4 KV	
Max. operating voltage	< 1000 V subject of resulting power	
Operating temperature	- 55°C ... + 200 °C	
Insulation Resistance	1000 MΩ	
Thermal shock	Δ R/R 0,3% max.MIL Std. 202, method 107 Cond.C...IEC 68-2-14	
Overload	Δ R/R 0,3% max.(1,5xPnom, 5sec do not exceed 1,5xV max)	
Moisture resistance	Δ R/R 0,5% max … MIL Std. 202, method 106...IEC 68-2-3	
Load life	Δ R/R 2% max. 1000 h. at rated power IEC 115-1	
Encapsulation	glaze	
Temperature coefficient	< ± 100ppm/°C	

Mechanical Characteristics

Weight	20g	
Seal condition	IP 00	

Environmental Characteristics

Storage Temperature	- 40°C ... + 105 °C	

Electrical Terminals

Cable	PTFE cable	(2)
Terminals	AMP	(2)

Application Notes

It is important to select a heatsink with low thermal resistance (typically ≤ 0.12°C/W) to enable the component to operate at ist continous power rating. Forced air cooling is required to maintain the specified temperature limits.
A thermal grease should be applied between the heatsink and the resistor.

Specifications subject to change without notice
(1) Other values on request
(2) Other cables or terminals on request

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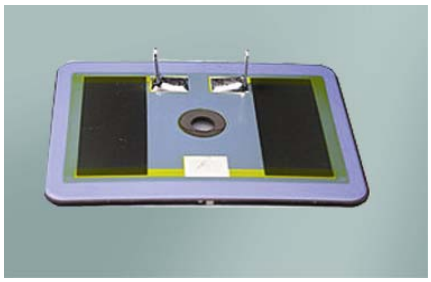

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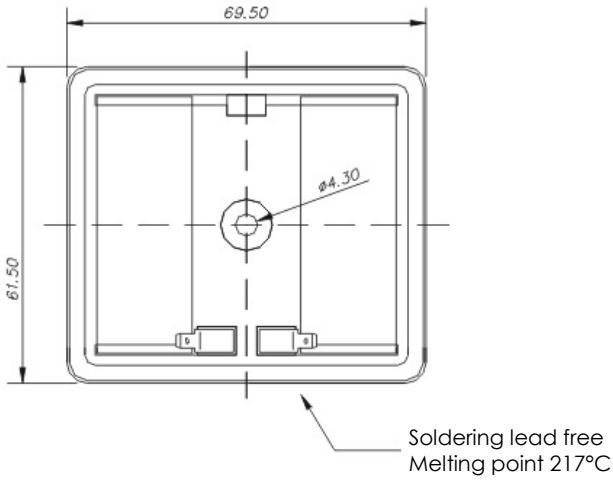
Drawing

PLR 300.70.61



Substrate thickness 1 ± 0,2

How to order

PLR 300.70.61 100R ± 10 % <electrical terminal>

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