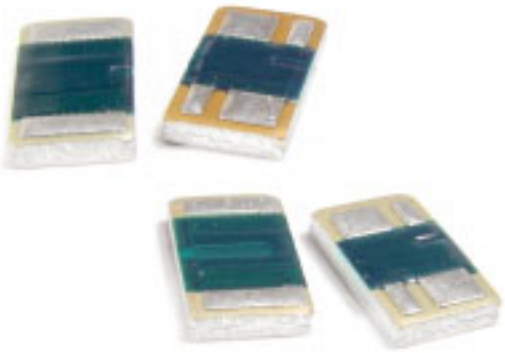
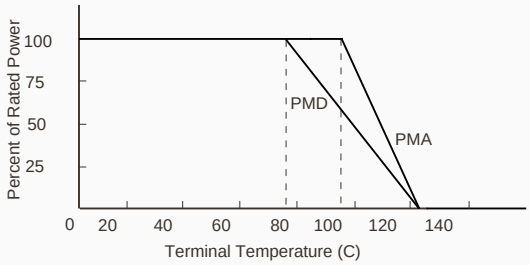
PMA, PMD

ISOTEK CORPORATION

Precision Current Sensing Resistors



The PMA and PMD resistors are designed for current sensing applications in SMD power modules and hybrid circuits. They are designed for flip-chip mounting on a pc board or ceramic substrate and will withstand standard soldering and surface mount processes. The PMA is a four-terminal (Kelvin) resistor for use where the highest precision is required.



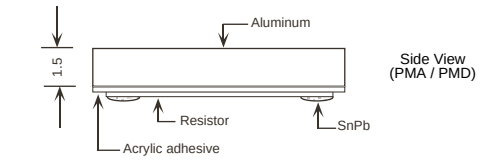
PMA-C-R005-1.0

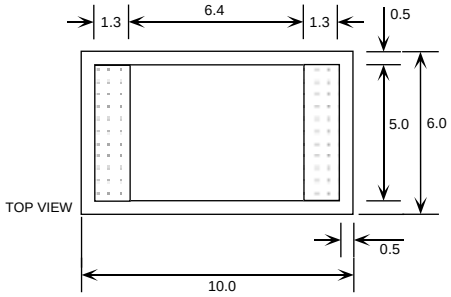
- Tolerance
- Resistance value
- Contact Layout
- Model

PMD-R100-1.0

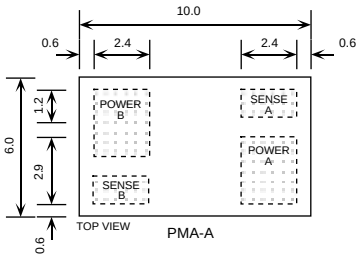
- Tolerance
- Resistance value
- Model

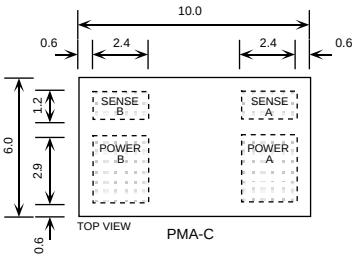
PMD

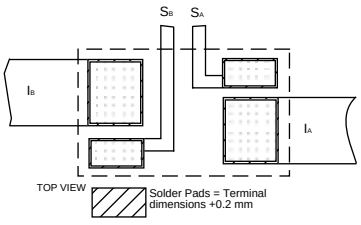


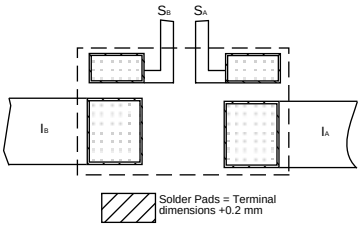


PMA









Dimensions in millimeters

Technical Data

Parameters	PMA	PMD
Resistance Range	2 mΩ to 500 mΩ	10 mΩ to 2Ω
Tolerance	1.0%, 5.0%	1.0%, 5.0%
Temperature Coefficient of Resistance (20°C to 60°C)	< 30 ppm/°C	< 50 ppm/°C
Power Rating (Watts)	3	2
Dielectric Withstanding Voltage	100 VAC	100 VAC
Inductance	< 10 nH	< 10 nH
Internal Thermal Resistance	Rth < 10°C/W	Rth < 15° C/W
Operating Temperature Range	-55°C to +125°C	-55°C to +125°C
Stability (Nominal Load at 70°C)	< 0.5% after 2000 hours	< 0.5% after 2000 hours

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