

gRAY

Laser Power Detector

FEATURES

- Very compact thermal detector
- Sensitive to all wavelengths from UV to MIR
- Powers of up to 500 mW
- Linear power response
- Attractive OEM pricing



gRAY - B0.5-SC

Product Name	gRAYB0.5-SC
Detector Type	thermal absorber
Spectral Range [μm]	0.19 - 15
Sensing Area (a x b) [mm x mm]	2x2
Sensor Thickness (d) [mm]	0.5
Max. Power [W]	0.5 (additional cooling necessary by heat sink)
Noise Equivalent Power ^a [μW]	10
Max. Average Power Density [kW/cm^2]	1.5
Min. Sensitivity (Z) [mV/W]	80
Temperature Dependence of Z [%/°C]	0.125
Response Time (0-95%) [s]	0.7 ^b / 1.5
Linearity with Power [%]	99.5
Operating Temperature Range Min / Max [°C]	-50 / 100
Cooling Method	conduction, convection
Electrical Connection (Solder Pads)	Bottom side

^a Experimentally evaluated values under optimal steady state conditions.

^b Anticipated signal.

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