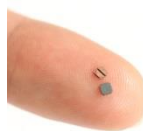




## Laser Power Detector

### 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 [ $\mu\text{m}$ ]	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 [ $\mu\text{W}$ ]	10
Max. Average Power Density [ $\text{kW}/\text{cm}^2$ ]	1.5
Min. Sensitivity (Z) [mV/W]	80
Temperature Dependence of Z [%/ $^{\circ}\text{C}$ ]	0.125
Response Time (0-95%) [s]	07 <sup>b</sup> /15
Linearity with Power [ $\pm\%$ ]	99.5
Operating Temperature Range Min / Max [ $^{\circ}\text{C}$ ]	-50 / 100
Cooling Method	conduction, convection
Electrical Connection (Solder Pads)	Bottom side

<sup>a</sup> Experimentally evaluated values under optimal steady state conditions.

<sup>b</sup> Anticipated signal.

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