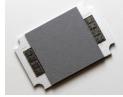
RAY Thermal PSD (Position Detector)

PRELIMINARY FEATURES

- Position and absolute power sensing of laser beams
- Highly sensitive thermopile sensor
- Sensitive to all wavelengths from UV to MIR
- Wide power range from μW to W
- Tolerant to beam angle
- Compact and robust design for system integration

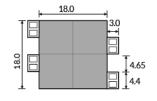


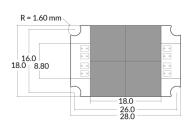




Product Name	gRAY - B05-PC	gRAY - C50-PC	
Detector Type	thermoelectric	thermoelectric	
Spectral Range [µm]	0.19 - 15	0.19 - 15	
Overall Detector Sensing Area (a x b) [mm x mm]	18 x 18	18 x 18	
Sensor Thickness (d) [mm]	0.6	1.6	
Spatial resolution [µm]	< 100	< 100	
Max. Power [W]	5	30	
Noise Equivalent Power ^a [µW]	10	800	
Max. Average Power Density [kW/cm²]	1.5	1.5	
Min. Sensitivity of each quadrant (Z) ^b [mV/W]	70	0.6	
Temperature Dependence of Z [%/°C]	0.125	0.175	
Response Time (0-95%) [s]	0.8 ° / 2.8	0.2	
Operating Temperature Range Min/Max [°C]	10/80	10/80	
Cooling Method	Conduction / Convection	Conduction / Convection (active)	
Linearity with Power [±%]	0.5	0.5	

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Experimentally evaluated values under optimal steady state conditions.
Position sensors are delivered without calibration.

^c Anticipated signal.