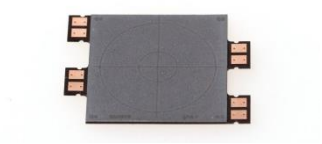
gRAY

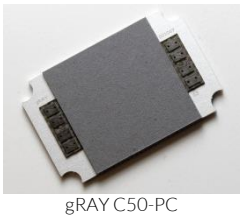
Thermal PSD (Position Sensitive Devices)

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



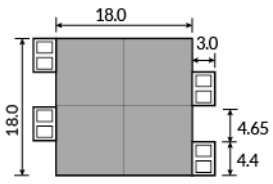
gRAY B05-PC

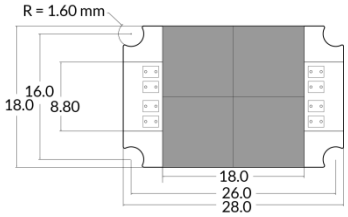


gRAY C50-PC

Product Name	gRAY - B05-PC	gRAY – C50-PC
Detector Type	Thermopile	Thermopile
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]	30	50
Max. Power [W]	5	30
Noise Equivalent Power [a] [µW]	10	800
Max. Average Power Density [kW/cm^2]	1.5	1.5
Min. Sensitivity of each quadrant (Z) [b] [mV/W]	80	0.5
Temperature Dependence of Z [%/°C]	0.125	0.175
Rise Time (0-95%) [s]	0.8 [c] / 2.1	0.2
Linearity with Power [±%]	0.5	0.5
Operating Temperature Range Min/Max [°C]	10 / 80	10 / 80
Cooling Method	Conduction, convection	Conduction, convection (active)
Electrical Connection	Solder pads	Solder pads

[a] Experimentally evaluated values under optimal steady state conditions.
[b] Position sensors are delivered without calibration.
[c] Anticipated signal.





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