

## 1.1.2.6 Medium-High Power Fan Cooled Thermal sensors

### 150mW to 250W

#### Features

- High powers and energies, large apertures
- Fan cooled
- Up to 250W
- Ø50mm aperture

FL250A-BB-50



Model	FL250A-BB-50
Use	General purpose
Absorber Type	Broadband
Spectral Range $\mu\text{m}$	0.19 - 20
Absorption	~88%
Aperture mm	Ø50mm
Power Mode	
Power Range <sup>(a)</sup>	150mW - 250W
Maximum Intermittent Power	NA
Power Scales	250W / 30W
Power Noise Level <sup>(a)</sup>	10mW
Maximum Average Power Density kW/cm <sup>2</sup>	10 at 250W 12 at 150W
Response Time with Meter (0-95%) typ. s	2.5
Calibration Uncertainty $\pm\%$	1.9
Power Accuracy $\pm\%$	3
Linearity with Power $\pm\%$	1
Energy Mode	
Energy Range	80mJ - 300J
Energy Scales	300J / 30J / 3J
Minimum Energy mJ <sup>(a)</sup>	80
Maximum Energy Density J/cm <sup>2</sup>	
<100ns	0.3
1 $\mu\text{s}$	0.4
0.5ms	5
2ms	10
10ms	30
Cooling	fan
Fiber Adapters Available (see page 93)	ST, FC, SMA, SC
Weight kg	0.8
Compliance	CE, UKCA, China RoHS
Version	
<b>Part Number: Standard Sensor</b>	<b>7Z02739</b>
<b>BeamTrack Sensor: Beam Position &amp; Size (p.64)</b>	<b>7Z07902</b>
Notes: (a) For lower powers up to 30W it is recommended to work with the fan off and then the noise level is ~5 times lower. It is also recommended to measure energy with the fan off.	

