1.1.2.7 High Power Thermal Sensors

1.1.2.7.2 High Power Water Cooled Thermal Sensors

0.5W to 250W

Features

- High Powers
- Water cooled
- Up to 250W
- Ø50mm apertures

Model	L250W
Use	General purpose
Absorber Type	Broadband
Spectral Range µm	0.19 - 20
Absorption	~88%
Aperture mm	Ø50mm
Power Mode	
Power Range	1W - 250W
Power Scales	250W / 30W
Power Noise Level	50mW
Maximum Average Power Density kW/cm²	10 at 250W 14 at 100W
Response Time with Meter (0-95%) typ. s	2.5
Calibration Uncertainty ±%	1.9
Power Accuracy ±%	3
Linearity with Power ±%	2
Energy Mode	
Energy Range	120mJ - 200J
Energy Scales	200J / 30J / 3J
Minimum Energy mJ	120
Maximum Energy Density J/cm²	
<100ns	0.3
1µs	0.4
0.5ms	5
2ms	10
10ms	30
Cooling	water
Recommended water flow at full power (b)	3 liter/min
Accessories for High Power Sensors	See pages 76-80
Weight Kg	0.6
Compliance	CE, UKCA, China RoHS
Version	
Part Number	**7Z02688**
Notes: (a) Water temperature range 18-30°C. Water temperature rate of change <1°C/min. Pressure drop across sensor 0.03MPa.