1.1.2.5 Medium Power Large Aperture Thermal Sensors – Apertures to 120mm

1W to 500W

Features

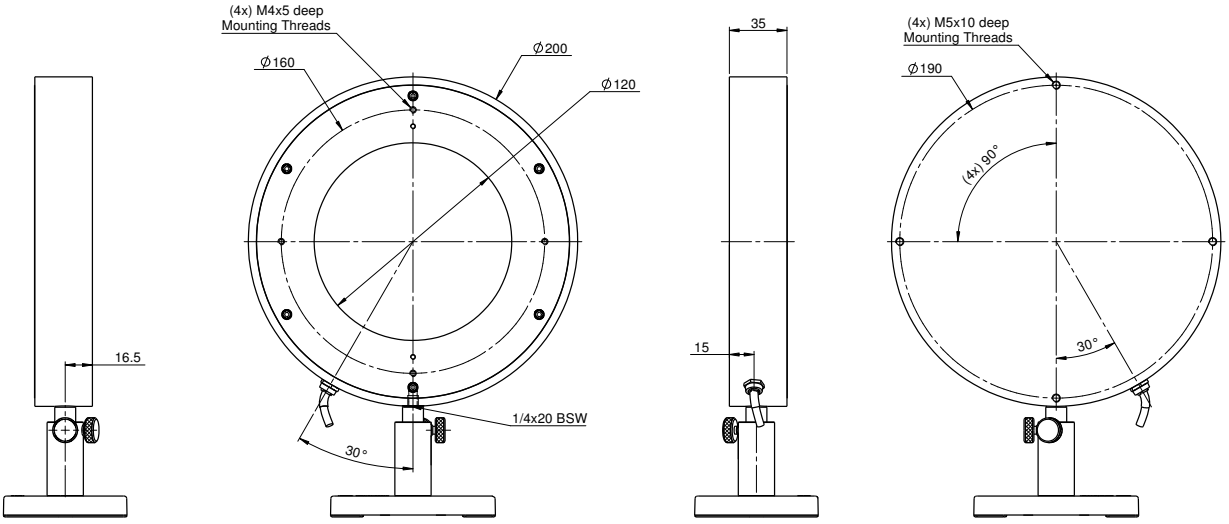
- Very large aperture
- Pulsed absorber
- Up to 500W
- Ø120mm aperture

L100(500)A-PF-120

Model	L100(500)A-PF-120	
Use	**High peak power, high energy measurements**	
Absorber Type	PF volume absorber	
Spectral Range µm	0.15 – 20	
Aperture mm	Ø120mm	
Power Mode		
Power Range	1W – 500W	
Maximum Intermittent Power	500W for 2min, 100W continuous, 500W continuous if heat sinked on rear	
Power Scales	500W / 50W	
Power Noise Level	50mW	
Maximum Average Power Density W/cm²	2000	
Response Time with Meter (0-95%) typ. s	7	
Calibration Uncertainty ±%	1.9	
Power Accuracy ±%	4 [a]	
Linearity with Power ±%	2	
Energy Mode		
Energy Range	6J – 6000J	
Energy Scales	6kJ / 600J / 60J	
Minimum Energy	6J	
Maximum Energy Density J/cm²	Single	10-50Hz [b]
<100ns	3 [c]	1.5
1µs	3 [c]	1.5
0.5ms	7	7
2ms	15	15
10ms	40	40
1s	3000	NA
Cooling	Convection or conduction	
Fiber Adapters	Consult Ophir representative	
Accessories for High Power Sensors	See pages 105-108	
Weight kg	4.4	
Compliance	CE, UKCA, China RoHS	
Version		
Part number	**7Z02765**	
Notes: (a)	Calibrated for 0.25 – 2µm	
Notes: (b)	For 10-50Hz derate as follows: 1064nm not derated 532nm not derated 355nm 70% of stated value 266nm 15% of stated value 193nm 10% of stated value	
Notes: (c)	Damage threshold 1.5J/cm² for wavelengths <500nm	

* For drawings please see page 73

L100(500)A-PF-120



Front Side

Back Side