

L40(150)A-LP1 PN 7Z02685S

100mW to 150W

Features

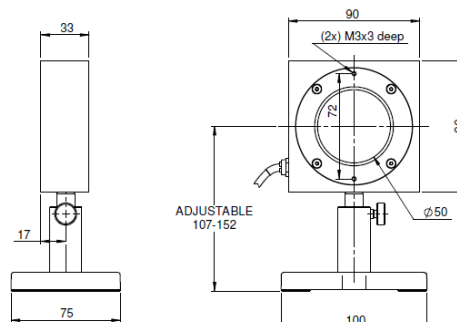
- Thin profile
- CW to 35W, intermittent to 150W
- Pulse energies up to 4000 Joules
- For measuring high power lasers by exposure to <1s pulses

L40(150)A-LP1



Model	L40(150)A-LP1
Use	Long pulse lasers
Absorber Type	LP1
Spectral Range μm	0.25 – 2.2, 2.94
Aperture mm	$\varnothing 50\text{mm}$
Power Mode	
Power Range	100mW - 150W
Maximum Intermittent Power	150W for 3min, 80W for 5.5min, 35W continuous
Power Scales	150W / 20W
Power Noise Level	10mW
Maximum Average Power Density kW/cm^2	38 at 150W 90 at 35W
Response Time with Meter (0-95%) typ. s	2.5
Power Accuracy +/-%	3 ^(a)
Linearity with Power +/-%	1
Energy Mode	
Energy Range	100mJ – 4000J
Energy Scales	4kJ /400J/ 40J/ 4J
Minimum Energy mJ	100
Maximum Energy Density J/cm^2	
<100ns	0.05
1 μs	0.3
0.5ms	20
2ms	50
10ms	250
Cooling	convection / ballistic
Fiber Adapters Available (see page 77)	ST, FC, SMA, SC
Weight kg	0.6
Version	V2
Part number	7Z02685S
Notes: (a)	LP1 sensors have relatively large spectral variation in absorption and have a calibrated spectral curve at all wavelengths in their spectral range to the above specified accuracy. Nova, Orion and LaserStar meters do not support this feature and when used with those meters, accuracy will be $\pm 3\%$ for 532nm, 808nm, 1064nm and 2940nm and $\pm 6\%$ for other wavelengths in the spectral range 400 – 1100nm.

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