

# Low Power Thermal Sensors

120mW to 50W

## Features

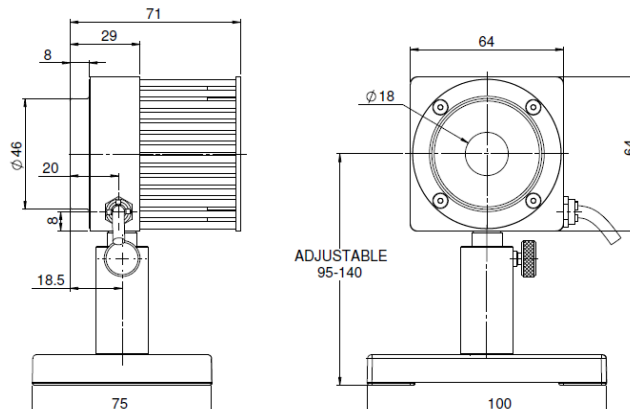
- Convection air cooled
- BF type absorber for short pulses
- $\phi 17.5\text{mm}$  aperture

50A-BF-DIF-18



Model	50A-BF-DIF-18		
Use	High energy density pulsed beams		
Absorber Type	BF type + diffuser		
Spectral Range $\mu\text{m}$	0.24 – 2.2		
Aperture mm	$\phi 17.5\text{mm}$		
Power Mode			
Power Range	120mW - 50W		
Power Scales	50W / 5W		
Power Noise Level	6mW		
Maximum Average Power Density KW/cm <sup>2</sup>	0.5		
Response Time with Display (0-95%) typ. s	2		
Power Accuracy +/-%	5		
Linearity with Power +/-%	1		
Energy Mode			
Energy Range	50mJ - 200J		
Energy Scales	200J / 30J / 3J		
Minimum Energy mJ	50		
Maximum Energy Density J/cm <sup>2</sup> (a)	Pulse rate:	Single <sup>(b)</sup>	10 – 50Hz <sup>(b)</sup>
	<1 $\mu\text{s}$	5	5
	0.5ms	20	20
	5ms	50	50
Cooling	convection		
Fiber Adapters Available	NA		
Weight Kg	0.35		
Version			
Part number	7Z02723		
Notes: (a): For shorter wavelengths derate maximum energy density as follows:	Wavelength	Derate to value not derated	
	1064nm	not derated	
	532nm	60% of stated value	
	355nm	60% of stated value	
	266nm	60% of stated value	
193nm	NA		
Notes (b); Maximum energy depends on beam size. Above values are for $\leq 5\text{mm}$ diameter beam. For 10mm beam derate to 50% of above values			

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