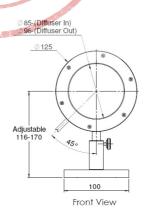
## PE100BB-DIF

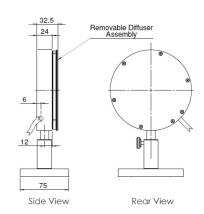
## Pulse Energy Measurements 2mJ to 40J, up to 20Hz

Specifications	PE100BB-DIF Diffuser out		Diffuser in		
Aperture:	φ96mm		φ85mm		
Spectral Response:	0.15 – 20µm		0.4 – 2.5µm		
Surface Reflectivity:	5%		15%		
			± 3%		
Calibration Accuracy:	± 3%		± 3%		
Additional Error with Wavelength: 193nm	100/		N.A.		
248nm	±2% ±2%		N.A.		
400-800nm	±2% ±2%		See note a		
1064nm	0		0		
1.5-2.5µm	I ~		See note b		
2.1µm	±2% ±2%		0		
2.94µm	±2% ±2%		N.A.		
10.6μm	±5%		N.A.		
	10%		IV.A.		
Damage Threshold: <100ns	0.2 l/am2		3J/cm <sup>2</sup>		
	0.3J/cm <sup>2</sup>		3J/cm <sup>2</sup>		
1μs 300μs	0.3J/cm <sup>2</sup> 1J/cm <sup>2</sup>		10J/cm <sup>2</sup>		
Linearity with Energy:	±2% for>10% of full scale		±2% for >10% of full scale <sup>d</sup>		
Maximum Average Power:	15W		40W		
Max Ave Power Density:	10W/cm <sup>2</sup>		500W/cm <sup>2</sup>		
		Lann	A STATE OF THE STA	Laws	
Max Pulse Width Setting:	Short	Long	Short	Long	
Maximum Pulse Width:	3ms	10ms	3ms	10ms	
Additional Error with Pulse Width	0011-	-2% at 6ms -4% at 10ms	001/6	-2% at 6ms -4% at 10ms	
Maximum Pulse Rate:	20Hz	10Hz	20Hz	10Hz	
Energy Scales:	20mJ to 10J	20mJ to 10J	200mJ to 40J <sup>c</sup>	200mJ to 40J <sup>c</sup>	
Lowest Measurable Energy:	2mJ	2mJ	15mJ	15mJ	
(1064nm)	B B				
Noise on Lowest Range:	150μJ	200μJ	1.5mJ	2mJ	
Additional Error with Frequency:	- F2	±2% at 9Hz, -4% at 10Hz	-2% at 17Hz -4% at 20Hz	±2% at 9Hz, -4% at 10Hz	
Cooling:	Convection		The state of the s		
Notes:  a: Calibrated for 532nm b: With diffuser installed, head is not calibrated at these wavelengths but provision is made for user calibration c: With diffuser in, head may saturate before end of range. In this case, use next higher range. d: 40J range may not measure down to 10% of scale. Use next lower range					









Ordering information				
Item	Description	Ophir P/N		
PE100BB-DIF	95/85mm aperture pyroelectric energy meter with broadband absorber and removable diffuser	1Z02883 / 7Z02883 (RoHS)		

Rev12/spc/1.6.09/ea

