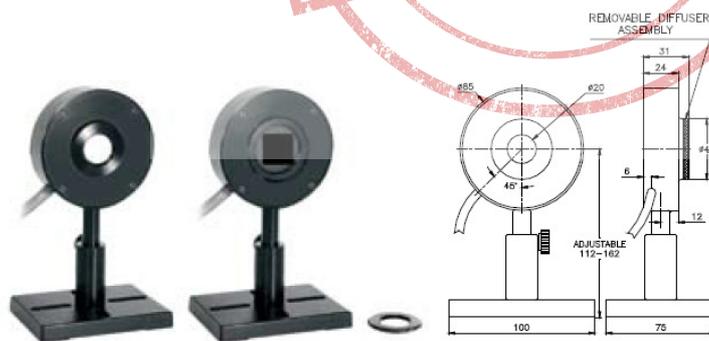


PE25BB-DIF

Pulse Energy Measurements 50µJ to 20J, up to 40Hz

Recommended Use: High energy YAG lasers, general
 Special Features : Diffuser for high damage threshold

Specifications	Diffuser out	Diffuser in
Aperture:	24x24mm	φ20mm
Spectral Response:	0.15 – 20µm	0.4 – 2.5µm
Surface Reflectivity:	5% approx.	15% approx.
Calibration Accuracy:	± 3%	± 3%
Additional Error with Wavelength:		
193nm	±2%	N.A.
248nm	±2%	N.A.
400-800nm	±2%	See note a
1064nm	0	0
1.5-2.5µm	-4%	See note b
2.1µm	-4%	0
10.6µm	±5%	N.A.
Damage Threshold:		
<100ns	0.3J/cm ²	3J/cm ²
1µs	0.3J/cm ²	3J/cm ²
300µs	1J/cm ²	10J/cm ²
Linearity:	±2% for >10% of full scale	±2% for >10% of full scale
Maximum Average Power:	10W	30W
Max Ave Power Density:	10W/cm ²	300W/cm ²
Max Pulse Width Setting:	Short Long	Short Long
Maximum Pulse Width:	3ms 12ms	3ms 12ms
Maximum Pulse Rate:	40Hz 10Hz	40Hz 10Hz
	10J to 2mJ 10J to 20mJ	20J to 20J to 40mJ
Energy Scales:		
Lowest Measurable Energy:	50µJ 500µJ	200µJ 1mJ
Noise on Lowest Range:	5µJ 20µJ	10µJ 50µJ
Additional Error with Frequency:	±2% ±2%	±2% ±2%
Cooling:	Convection	
Notes:	a: Calibrated for 532nm b: With diffuser installed, head is not calibrated at these wavelengths but provision is made for user calibration	



PE25BB-DIF

DIFFUSER IN

DIFFUSER OUT

Ordering information		
Item	Description	Ophir P/N
PE25BB-DIF	24x24mm/20mm aperture pyroelectric energy meter with broadband absorber and removable diffuser	1Z02879 / 7Z02879 (RoHS)

Rev11/spc/14.03.09/eg

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