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Find the *MPB Communications EBS-4022* at our website: *Click HERE*

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Erbium Broadband Source

EBS-4022



An extremely stable, flattened broadband source delivering 22 dBm in a 40-nm wide spectrum spanning the whole C band

- ASE spectral-shaping scheme flattens the output to 1 dB from 1527 to 1567 nm
- very high power provides an unsurpassed, uniform dynamic range for the characterization of passive optical components such as array waveguides
- average power-spectral density equal to laser comb's ... less the fluctuations

Applications

- Wide-dynamic-range characterization of components such as AWGs and FBGs
- Alternative to multiple DFB lasers and multiplexer in telecommunications test sets
- Accurate gain-spectrum measurement of EDFAs with spectral-hole burning included
- Local networking using spectral slicing or optical code-division multiplexing
- PMD measurements of long-span fiber links
- Fiber sensing
- Gyroscopes
- White-light interferometry

MPB Communications Inc.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Specifications

EBS-4022



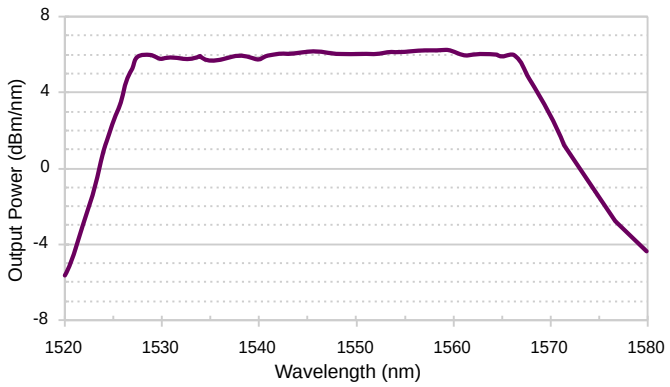
Optical Specifications

Total Output Power:	22 dBm typ., ≥ 21.5 dBm
Spectral Width	
at 3 dB:	≥ 40 nm
at 20 dB:	58 nm typ.
Ripple:	≤ 1.5 dB over ≥ 38 nm (1dB typ.)
Stability (after 30-min warm up):	≤± 10 mdB / hr (5 mdB/hr typ.)
State of Polarization:	Unpolarized
Optical Isolation (output):	≥ 42 dB over bandwidth
Output Connector:	E-2000 APC mechanically-shuttered connector (other connectors available as option.)
Optical Safety Classification:	Class 3 B

Other Specifications

Dimensions (W x H x L):	21.5 cm x 9.0 cm x 42.5 cm
Weight:	4 kg
Communication:	RS-232 (optional)
Line Voltage:	90 ~ 240 VAC 50 ~ 60 Hz
Maximum Power Consumption:	27 W
Storage Temperature Range:	-40°C ~+85°C
Operating Temperature Range:	0° ~+40°C

Specifications subject to change without notice.



Typical power-density spectrum of the EBS-4022 Er^{3+} Broadband Source, as measured with an optical spectrum analyzer using a resolution bandwidth of 1 nm.

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