

ARTISAN®
TECHNOLOGY GROUP

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SPECS

ERBIUM BROADBAN SOURCES

EBS-XS
Micro Broadband Source

DWDM Comb Source

EBS 4015 / EFA
Erbium Broadband Source anc Power Amplifier

EBS-4022, EBS-4022L, EYBS-3
Flat High-Power Broadband Sources

EBS-7210, EBS-7514
Dual Band Broadband Sources

EBS-4015/EFA - A Unique Source

The EBS-4015/EFA is a two-in-one device incorporating a high-power, spectrally-flattened broadband source in the 1550-nm region, and a low noise figure power amplifier. Developed to be a versatile piece of laboratory equipment, satisfying the requirements of applications ranging from telecommunications or fiber sensors to biomedicine, the EBS-4015/EFA is another example of MPB's continuing innovation in erbium-fiber technology.

The EBS-4015/EFA Broadband Source and Power Amplifier utilizes amplified spontaneous emission (ASE) from diode-pumped Erbium-doped fiber and a cleverly-conceived spectral-shaping scheme to produce more than 15 dBm of unpolarized output centered at 1548 nm and with a near flat-top spectrum; maximum ripple does not exceed 2.0 dB over most of the spectrum, namely 39-nm, while 3-dB bandwidth is larger than 40 nm.

Applications

- Accurate gain spectrum measurement of EDFAs
- Quick loss-spectrum measurement of DWDM optical components
- Transmission spectrum measurement of telecom links and systems
- System compliance tests
- Local networking by spectral slicing
- PMD measurements
- Fiber sensors and gyroscopes
- White-light interferometry

Specifications

EBS-4015/EFA - Broadband Source

Total Output Power	≥ 15	dBm
Spectral Width		
at 3 dB	≥ 40	nm
at 20 dB	58 (typical)	nm
Ripple	≤ 1/d dB over 38 nm (1.0 dB typ.)	
Stability (after 30 min warm-up)	≤± 10 mdB/hr (5 mdB /hr typ.)	

EBS-4015/EFA - Power Amplifier

Min. Wavelength Range	1528 nm - 1568	nm
Saturated Output Power	≥ 15	dBm
Small-signal Gainat 1550 nm	-30	dBm
Noise Figure at 1550 nm		
-30 dBm	≤ 5.0 (4.2 typ.)	dB
-4 dBm	≤ 5.0 (4.4 dB typ.)	dB
Polarization Sensitivity	< 0.10 (0.05 typ.)	dBm

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For more detailed specifications or information on any of our product or services, please contact the head office

Artisan Technology Group is an independent supplier of quality pre-owned equipment

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Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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