

EAU Series

Low Noise Erbium Amplifier Modules



Applications

- ▶ CATV
- ▶ FTTB
- ▶ FTTC
- ▶ FTTH
- ▶ FTTx
- ▶ Broadband Access
- ▶ Free Space Communications
- ▶ RF Video Overlay
- ▶ Other OEM Applications



Features

- ▶ Total Output Power up to 5 W
- ▶ Integrated Splitter Option up to 18 Ports
- ▶ Low Noise Figure & CNR
- ▶ Cooler-free Pump Operation
- ▶ Hardened Option for Outdoor Applications
- ▶ Rack Mount Up-packaging Available
- ▶ Digital Control Interface

IPG Photonics' EAU Series of low-noise, high performance erbium doped fiber amplifiers (EDFAs) are the ideal building blocks for FTTH and CATV equipment manufacturers requiring C-band or L-band optical amplification. EAU Series modules offer the widest range of power choices and are offered in pre-amp, line and booster configurations to enable the most cost-effective network architecture. EAU Series modules are optimized for low noise performance and allow for clear transmission of voice, video and data signals. Carrier-to-noise ratio (CNR) is maintained to better than 1 dB. Output powers with up to 5 watts and up to 18 output ports are available.

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Optical Characteristics

	-50-C	-100-C	-500-C	-1-C
Output Power per Port, dBm	17	20	27	30
Number of Ports	1	1, 2	1, 2, 4, 8	1, 2, 4, 8, 16
Output Power Uniformity, dB	±0.2			
Operating Wavelength Range, nm	1536-1565			
Noise Figure with 0 dBm Input, dB	<4.5			
Noise Figure with +5 dBm Input, dB	<5.5			
Composite Second Order (CSO), dBC	-75			
Composite Triple Beat (CTB), dBC	-80			
Input/Output Isolation, dB	40			
Residual Pump Power, dBm/ nm	-20			

General Characteristics

Ambient Operational Temperature Range, °C	-10 to +70
Storage Temperature Range, °C	-40 to +85

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