

Metro 2002 Series

Ultra-Compact C- and L-band Erbium Fiber Amplifiers

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Description

The new Metro 2002 series from IPG is a super-compact, low-cost erbium fiber amplifier for either C- or L-band applications. The small size gives drop-in flexibility -- an easy board upgrade for new or existing network systems.

The Metro 2002 features powers up to 20 dBm, optional electronics, and WDM versions. The Metro 2002 enables rapid implementation of your card-level solutions.

IPG's team of optical and engineering scientists is ready to work with you to tailor parameters to your requirements.



Extremely High Reliability Compact Size 90x70x12 mm (gain block only) 90x70x15 mm (with electronics) Output Powers up to 20 dBm Single Channel or WDM

For: Long-Haul, Metro, Metro-Ring and Access Applications

-10 to +70°C Operation

Cooler-Free Pump Operation

Architecture:

The versatile Metro 2002 package is made possible by new packaging techniques developed at IPG, based on our standard non-TEC pump technology. Vertically integrated manufacturing allows us to control the design and manufacture of critical components enabling customization to your requirements and the fastest time-to-prototype.

Proven Reliability:

IPG has more than 10 years of experience in field deployment of low, mid and high power optical fiber amplifiers. Strict component qualification procedures mean a consistent and reliable product in the field that you and your customers can trust.

Typical Performance

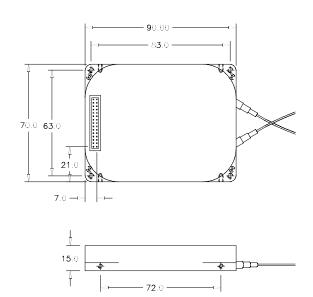
Parameters	Configuration	Cond.	Unit	EAU-Mxx-C	EAU-Mxx-L
Operating Wavelength Range			nm	1529-1565	1565-1605
Output Power @ -30 dBm @ -5 dBm	Pre-amplifier Line/Booster		dBm	Up to 3 dBm Up to 20 dBm	Up 3 dBm Up to 20 dBm
Noise Figure @ -30 dBm @ -5 dBm	Pre-amplifier Line/Booster	Тур.	dBm	4.5 4.6	4.5 5
Gain Flatness	WDM Versions	Тур.	dB	± 0.3	± 0.3
PDG		Max.	dB	0.3	0.3
PMD		Max.	ps	0.4	0.4
Operating Voltage			V	3.3 or 5 V	3.3 or 5 V
Operational Temperature Range			°C	-10 to +70	-10 to +70
Storage Temperature			°C	-40 to +85	-40 to +85
Dimensions	Gain Block with PD		mm	90 x 70 x 12	90 x 70 x 12
	With Built-in Electronics			90 x 70 x 15	90 x 70 x 15

Packaging Dimensions

Gain Block with Photo Diode

83.0 # 44 .0 63.0 26.0 19.5 **12**.0 72.0

Gain Block with Additional Built in Electronics



ESD PROTECTION: This device is sensitive to electrical or static discharges (ESD). Please follow precautions to prevent ESD.

CAUTION: USE OF CONTROLS, ADJUSTMENTS AND PROCEDURES OTHER THAN THOSE SPECIFIED MAY RESULT IN HAZARDOUS LASER RADIATION EXPOSURE. WEAR PROPER SAFETY EYEWEAR DURING OPERATION.

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