



C-Band PreAmplifier EDFA

**Product Description:**

The MARS series C-band PreAmplifier Er-doped fiber amplifiers of Connet are the high-gain, low-noise fiber amplifiers (Pre-EDFA). This amplifier is used to pre-amplify the small signal, improve the receiver sensitivity and extend the transmission distance of the signal. This series of amplifiers employ the optimized Er-doped fiber optical path structure internally. The ASE is suppressed to an extreme level and the high-performance small signal amplification output can be achieved. The maximum gain can be up to 50dB at the small signal input of -40dBm.

Connet MARS series C-band Pre-Amplifier Er-doped fiber amplifiers (Pre-EDFA) have the built-in drive circuit and the logical control circuit to perform real-time monitor on the input/output optical power, the temperature of the pump laser and the module, and the signal gain. All the state parameters and the configuration information can be flexibly adjusted and monitored via the main control software on the upper computer. Both the benchtop and the module packages are available for option to meet the requirements of different applications.

**Features:**

- Low noise, high gain
- High stability, high reliability
- Gain flattened
- Tunable output power

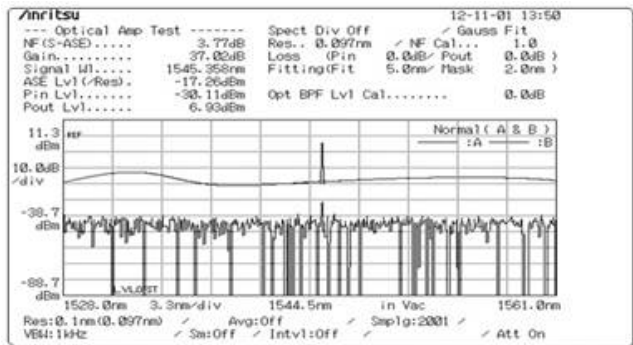
**Applications:**

- Metro network
- Optical access network
- Fiber optic communication
- Scientific research

**Specifications :**

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		MFAS-ER-C-PA		
Operating wavelength	nm	1528	1550	1560
Input power	dBm	-45	-	-10
Output power	dBm	-	10	-
Minimum gain	dB	30	-	-
Noise figure	dB	-	-	5
Input/output isolation	dB	30	35	-
Output power tunable range	%	0	-	100
Output power tunable mode		Coarse/Fine		
Power consumption	W	-	-	5
Operating temperature	°C	0	-	+50
Storage temperature	°C	-40	-	+85
Input/output fiber type		SMF 9/125um NA=0.13		
Input/output fiber length	m	> 1		
Optical connector		FC/APC (other options available)		
Power supply	V <sub>AC</sub>	100-240		
Dimension		19" 2U		

**Spectrum:**



**Ordering Information :**

MFAS-ER-C-<P>-<PW>-PA

P: Package, B-Benchtop, M-Module

PW : Output power in dBm, Example: 7-5mW, 10-10mW