

C-band PM Optical Fiber Amplifier



Product Description:

The MARS series C-band polarization maintaining fiber amplifiers of Connet adopt the integrated all-fiber structure design. The unique polarization control technology and the advanced polarization maintaining fiber splicing technology ensure that the amplifiers can obtain the high power and the high extinction ratio linear polarization output.

The MARS series polarization maintaining optical fiber amplifiers are the integral Turn-Key system with the microprocessor inside for controlling. With a clear interface and easy control, the LCD on the front panel can give a real-time display of the operating state of the pump current and temperature. The LCD can also offer the warning messages.

Applications:

- Non-linearity research
- Free-space communication
- Fiber optic sensing
- Coherent combination
- Research & development

Features:

- High output power
- Low noise figure
- High PER output
- High stability, high reliability
- LCD display interface, easy operation



Specifications:

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		MFAP-ER-C		
Operating wavelength	nm	1528	1550	1560
Input power	dBm	-3	0	+10
Output power @0dBm Input power ¹	dBm	10	-	23
Noise figure @0dBm Input power	dB	-	<5.5	-
Polarization Extinction Ratio (PER)	dB	18	20	-
Input/output Isolation	dB	30	-	-
Output power stability (8hrs) ²	%		±1	±2
Input power monitoring		Yes		
Output power monitoring		Yes		
Output power tunable		Yes		
Polarization		Linear Polarization		
Input/output fiber type (PM)		PM1550		
Input/output fiber length	m	>1		
Optical connector		FC/APC (other options available)		
Output power tunable range	%	10	-	100
Operating temperature	°C	0	-	+50
Storage temperature	°C	-40	-	+85
Power supply (Benchtop)	V _{AC}	100~240		
Power consumption	W	-	-	20
Dimension ³		19" 2U		

Specifications:

- Output power is optional, the typical power is 50mW, 100mW, 200mW
- The output power stability is measured under 25°C after 30 minutes' warm-up.
- Module package is available.

Ordering Information:

- MFAP-ER-C-<P>-<PW>: PM
- P: Package, B-Benchtop, M-Module
- PW: Output power in dBm, e.g.: 20-100mW, 23-200mW