MARS SERIES

L-band Optical Fiber Amplifier

Connet MARS series L-band optical fiber amplifier is integrated with high power and high property multi-mode pumps, plus the double cladding fiber amplifying technology and the optimized optical structure design to realize the output power up to 1.5W. It has built-in laser current driver, high accuracy ATC&ACC (APC) driver electronics controller and the excellent LCD display interface in Turn-key Benchtop package to realize the high stable output.

Through the extensive experience in handling the double cladding fiber, Connet conducts the proper optimal optical structure design to the high power fiber amplifier to achieve the high efficiency output. The high-speed response protection circuit monitors the power of the input and the output signals automatically so that it can cut down the operation of the high power pump in case of the falling off of the input signal to ensure the safety of the whole system.

Features:
- High output power: up to 5W
- Low noise figure
- High stability, high reliability
- LCD display interface

Applications:
- Non-linearity research
- High power amplifying
- Fiber sensing
- Optical fiber communication
- Research & development

MFAS-ER(EY)-L: SM
MFAP-ER(EY)-L: PM
Specifications:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part no.</td>
<td></td>
<td>MFAS-ER(EY)-L: SM, MFAP-ER(EY)-L: PM</td>
</tr>
<tr>
<td>Operating wavelength</td>
<td>nm</td>
<td>1575-1590</td>
</tr>
<tr>
<td>Input power</td>
<td>dBm</td>
<td>-3-0</td>
</tr>
<tr>
<td>Output power @0dBm Input power¹</td>
<td>W</td>
<td>-</td>
</tr>
<tr>
<td>Noise figure @0dBm Input power</td>
<td>dB</td>
<td>-</td>
</tr>
<tr>
<td>Input/Output Isolation</td>
<td>dB</td>
<td>30</td>
</tr>
<tr>
<td>Output power stability² (8h)</td>
<td>%</td>
<td>-</td>
</tr>
</tbody>
</table>

Input power monitoring          Yes
Output power monitoring          Yes
Output power tunable            Yes
Output fiber type (SM)           SMF 9/125um NA=0.13
Output fiber type (PM)           PM1550
Output fiber length              m >1
Optical connector                FC/PC (other options available)
Output power tunable range       % 10 - 100
Operation temperature            °C 0 - 50
Storage temperature              °C -40 - 85
Power supply (Benchtop)          VAC 100-240
Power consumption                W - 100
Dimension                        19” 2U

Specifications:

- Output power is optional and related to the operating wavelength;
- The output power stability is measured under 25°C, after 30 minutes’ warm-up.

Ordering information:

- MFAS-ER(EY)-L-B<PW>: SM
- MFAP-ER(EY)-L-B<PW>: PM
- B: Benchtop
- PW: Output power in dBm, Example: 20-100mW, 30-1W