

Model Number: **EDFA-CW-C0-PM-MR-18-18-FCA**

Product Code: **1606**

Micro Processor Controlled EDFA



Specifications:

| Parameters | Specifications |
|-------------------------------------|--|
| Wavelength Range | 1530 – 1565nm, C-band single channel |
| Polarization Maintaining Property | Provided. Optical signal: slow axis light is amplified; fast axis light is blocked |
| Gain Flattening Filter | Not Included |
| Output Power | +18 dBm, tested with 1550 nm, 0 dBm input, aligned along slow axis of PM fiber |
| Gain | 18 dB, tested with 1550 nm, 0 dBm input, aligned along slow axis of PM fiber |
| Optical Input Fiber | 900um loose tube, FC/APC, blue, 1 meter, PM fiber PN: SM15-PS-U25D |
| Optical Output Fiber | 900um loose tube, FC/APC, red, 1 meter, PM fiber PN: SM15-PS-U25D |
| Input Power Monitoring Range | -15 dBm to +5 dBm |
| Output Power Monitoring Range | +2 to +19 dBm |
| Input Power Measurement Accuracy | ≤ +/- 0.5 dB, 1550 nm |
| Output Power Measurement Accuracy | ≤ +/- 0.5 dB, 1550 nm |
| Noise Figure | ≤ 5.5 dB, tested at 18 dB gain, 0 dBm input power at 1550 nm |
| Polarization Extinction Ratio | ≥ 20 dB |
| Control and Communication Interface | RS-232, UART 5V/0V voltage level |
| Dimension | 90 x 70 x 15mm |
| Power Input | +5 VDC +/- 5% |
| Electrical Interface Connector | PN: SQT-115-03-L-D, Female 30-PIN |
| Operational Case Temperature Range | -5 to +70 °C |
| Mode of Operation | AOPC (constant output power control), ACC (constant pump current control) |

Electrical connector:

Part number: SQT-115-03-L-D

| Pin No. | Description | Pin No. | Description |
|---------|---------------------------|---------|----------------------------|
| 1 | 5V Vin | 2 | 5V Vin |
| 3 | - | 4 | - |
| 5 | GROUND | 6 | GROUND |
| 7 | Serial In | 8 | Serial Out |
| 9 | GROUND | 10 | GROUND |
| 11 | - | 12 | EXTERNAL RESET |
| 13 | PUMP ENABLE / DISABLE | 14 | OUTPUT MUTE |
| 15 | CASE TEMPERATURE ALARM | 16 | COMMON ALARM |
| 17 | TEMPERATURE ALARM | 18 | PUMP BIAS ALARM |
| 19 | LOSS OF INPUT POWER ALARM | 20 | LOSS OF OUTPUT POWER ALARM |
| 21 | GROUND | 22 | GROUND |
| 23 | INPUT POWER MONITOR | 24 | OUTPUT POWER MONITOR |
| 25 | GROUND | 26 | GROUND |
| 27 | - | 28 | - |
| 29 | 5V Vin | 30 | 5V Vin |

