# C-band High Gain Optical Amplifier
# LHA-100C

## Key Features

- □ High Output Gain with > 50dB
- □ Low Input Power of -50dBm
- □ Low Noise Figure

## Applications

- □ Low Signal Amplification
- □ Fiber Optic Components Testing
- □ Optical Sensing Application

| Category | Parameter | Specificfation | | | |
|---|---|---|---|---|---|
| | | Min. | Typ. | Max. | Unit |
| Optical Characteristics | Wavelength Range | 1529 | | 1562 | nm |
| | Input Signal Type | | Continuous Wave (CW) | | |
| | Input Signal Power Level | -45 | | -15 | dBm |
| | Saturated Output Power @ Pin of -15 dBm | 10 | 15 | | dBm |
| | Gain @ -45dBm Input | 40 | 42 | | dB |
| | Gain @ 1531~1534nm, -45dBm Input Signal | 50 | 53 | | dB |
| SM Type | Noise Figure @ -45dBm Input Signal (1) | | 3.6 | 4.2 | dB |
| SM Type | Polarization Dependent Gain (PDG) | | 0.3 | 0.5 | dB |
| SM Type | Polarization Mode Dispersion (PMD) | | 0.3 | 0.5 | ps |
| SM Type | Optical Fiber | | SME-28e | | |
| PM Type | Noise Figure @ -45dBm Input Signal (1) | | 3.2 | 3.8 | dB |
| PM Type | Polarization Extinction Ratio (PER) | 20 | 23 | | dB |
| PM Type | Optical Fiber | | Panda 1550nm Fiber | | |
| | Input/Output Isolation | | > 30 | | dB |
| | Optical Connector | | FC or SC, SPC or APC | | |
| | Electrical Power Consumption | | 50 | | W |
| Control | Remote Control | | USB | | |
| Recommended Operating Conditions | Power Supply | | AC 100~240 (50/60 Hz) | | Vac |
| Recommended Operating Conditions | Operating Temperature | | +10 ~ +45 | | °C |
| Recommended Operating Conditions | Storage Temperature | | 0 to +60 | | °C |
| Physical | Dimension (WxHxD) | | 236 x 88 x 360 | | mm |
| | Weight | | 5 | | kg |

Note: (1) Measured at 25°C+/-3°C.

## Order Instruction

Model LHA-100C-YY-ZZ

YY: SM --> Single Mode, PM --> Polarization Maintaining

ZZ: FS-->FC/SPC, FA-->FC/APC, SS-->SC/SPC, SA-->SC/APC