

1550 Dual Optical Transmitter

Lindsay Broadband LB1550-D/PT series of rack mount optical transmitters are high performance, low noise 1550nm DFB direct modulated lasers. The 1RU 19 inch Rack mount chassis houses dual 1550nm optical transmitter modules with Optical output powers from 2mw to 10mw, in 2mw steps. AGC adjusts for variations in RF input levels. Auto output laser power stability control (APC) and auto laser temperature control (ATC) are standard features. The LED front panel display is used to monitor all functional transmitter parameters; output laser power, laser bias current, cooling current, temperature. The LB1550-D/PT is equipped with a USB communication interface for system network management. Optional hot swappable dual switch mode power supplies.

LB1550-D/PT Series



FEATURES

- 1U standard rack mount holds 2 optical transmitters.
- High performance DFB direct modulated lasers.
- 1550 ± 10nm wavelength
- Available Output power (2mw to 10mw) in 2mw steps.
- 47 - 1002MHz RF input with AGC
- 90 - 260VAC (50 to 60Hz) powering
- APC and ATC control circuits
- LED display shows all functioning parameters
- USB port for Plug-in SNMP management.



Specifications

| PARAMETER | SPECIFICATION | UNIT |
|------------------------------|------------------------------------|------|
| Optical Wavelength | 1550 ± 10 | nm |
| Optical output Power | 2-10 (in 2mw steps) | mW |
| Optical Connector | SC/APC or FC/APC | |
| Optical Fiber Type | Single Mode | |
| RF input Bandwidth | 47- 1002MHz | MHz |
| Flatness | ±0.75 | dB |
| RF Input level w/AGC control | 18 - 28 | dBmV |
| Return Loss | ≥16 (47-750MHz); ≥14 (750-1000MHz) | dB |
| CTB | ≥65 | dB |
| CSO | ≥65 | dB |
| C/N | ≥52 | dB |
| Powering | 90 - 260VAC (50 to 60Hz) | VAC |
| Power Consumption | ≤ 50 | W |
| Network Interface | USB port | |
| Operating Temperature | 0 - 50 | °C |
| Dimension: | 482 × 279 × 44 (W×D×H) | mm |
| Weight | ≤10 | kg |

LB1550-D/PT 1550nm Dual Optical Transmitter Ordering Matrix

| | Optical Power | Optical Connector | Power Socket/Type | Network Management |
|-------------|---------------|-------------------|-------------------|--------------------|
| LB1550-D/PT | - <u>X</u> | - <u>XX</u> | - <u>X</u> | - <u>X</u> |
| | 2 2mW | SA= SC/APC | A North America | N None |
| | 4 4mW | FA= FC/APC | B Europe | 1 SNMP |
| | 6 6mW | | C Asia | |
| | 8 8mW | | | |
| | 10 10mW | | | |

FOR MORE INFORMATION ON OUR WIRELESS, OPTICAL AND RF PRODUCTS
CALL 1-800-465-7046 OR
U.S. Sales Toll free: 877-672-4340

www.lindsaybroadbandinc.com