

LB1310TC SERIES 1310NM OPTICAL TRANSMITTER

DESCRIPTION

Lindsay Broadband's LB1310TC series of rack mount optical transmitters are high linear and low noise. AGC/MGC switch adjusts for variations in RF input levels along with Optical Modulation Index (OMI) adjustment. Auto output laser power stability control (APC) and auto laser temperature control (ATC) are standard features. The LB1310TC is equipped with RS-232, RJ45 communication interfaces for system network management. Optional hot swappable dual switch mode power supplies.



FEATURES

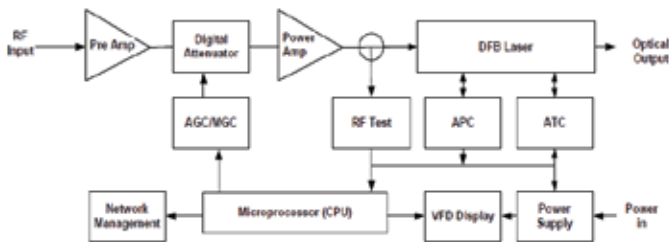
- 1U standard rack mounted case
- 1310nm High performance DFB direct modulated laser
- 1310 ± 20nm wavelength
- Available Output power (4mw to 20mw)
- Can accommodate up to 14db path loss
- 47 – 1000MHz RF input with AGC/MGC switch
- 100 – 260VAC (50 to 60Hz) powering
- APC and ATC control circuits
- Microprocessor monitoring automatically ensures excellent performance
- LED display shows all functioning transmitter parameters
- Operating case temperature:

SPECIFICATIONS

| PARAMETER | SPECIFICATION | UNIT |
|-------------------------------|---------------------------------------|------|
| RF Input Bandwidth | 47-1000MHz | MHz |
| Flatness | ±0.75 | dB |
| RF Input Level w/ AGC Control | 20 | dBmV |
| Return Loss | ≥16 (47-550MHz); ≥14 (550-1000MHz) | dB |
| AGC Control | Input Level ±5 | dB |
| OMI Control | ±5 | dB |
| CTB | ≥65 | dB |
| CSO | ≥60 | dB |
| C/N | ≥51 | dB |
| Optical Wavelength | 1310±20 | Nm |
| Optical Power | 4-20 (in 2mw steps) | mW |
| Optical Connector | SC/APC or FC/APC | |
| Optical Fiber Type | Single Mode | |
| Voltage | 100 - 260VAC (50 to 60Hz) | VAC |
| Power Consumption | ≤ 30 | W |
| Dimension: | 480 × 320 × 44 (W×D×H) | Mm |
| Weight | ≤6 | kg |

Note: Specifications subject to change without notice
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BLOCK DIAGRAM



ORDERING INFORMATION

| | Optical Power | Optical Connector | Power Supply | Power Socket/Type | Network Management |
|----------|---------------|-------------------|-----------------------|-------------------|--------------------|
| LB1310TC | X | XX | X | X | X |
| | 4 4mW | SA=SC/APC | 1 Single Power supply | A North America | N None |
| | 6 6mW | SU=SC/U/PC | 2 Dual Power supply | B Europe | 1 SNMP |
| | 8 8mW | FA=FC/APC | | S Asia | 2 Web |
| | 10 10mW | FU=FC/U/PC | | | |
| | 12 12mW | | | | |
| | 14 14mW | | | | |
| | 16 16mW | | | | |
| | 18 18mW | | | | |
| | 20 20mW | | | | |

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