



CableServ Return Transmitter for GI AM and BT Series Optical Nodes

Product Description

CableServ® offers a series of Return Path transmitter modules for GI AM and BT Series Optical Nodes.

The Return Transmitters are offered in DFB 1310nm and 1550nm, as well as 1470 to 1610nm ITU CWDM wavelengths.



Applications

- Replacement Return TX Modules.
- Upgrade of Fabry-Perot to DFB return transmitters for launch of Telephony.
- CWDM Modules for multiplexing upstream data on a single fiber.

These high performance return transmitters perform equal to or better than the original manufacturer's products. For Cable Operators launching Telephony, CableServ offers DFB return transmitters that directly replace the original low performance Fabry-Perot devices, offering increased performance.

In traditional data transmission, the overloading of a return transmitter can result in laser clipping and lost data packets forcing a request to re-transmit data. With Digital Telephone Services laser clipping and the resulting lost data packets may result in dropped telephone calls. For this reason many CATV operators are upgrading to better performing DFB return transmitters.

CableServ also offers CWDM (Coarse Wavelength Division Multiplexing) Technology Return Modules. These are an ideal solution when there is no additional fiber at the node, yet the node is required to be segmented. CWDM allows the combining of multiple return paths. The individual node segments are modulated on to individual return lasers and multiplexed onto a single fiber.

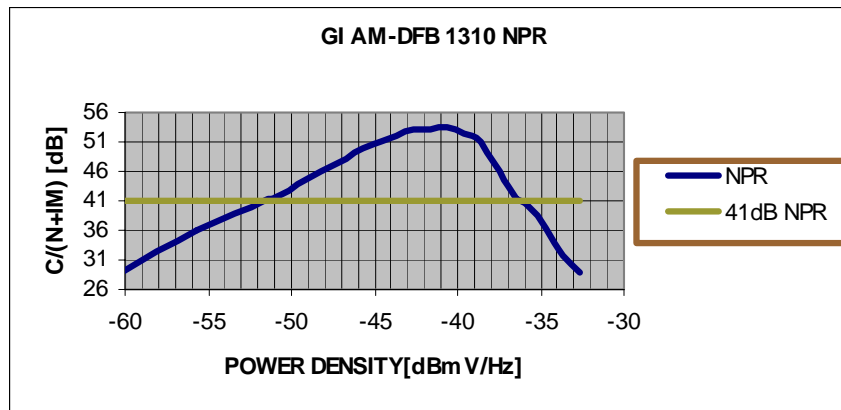
Product Features

- DC Test Point scaled to Transmit Power
- LED Indicators for DC Power and Transmit Power
- Low Power Consumption
- Two-Year CableServ Warranty

| CS RTX GI AM-DFB 1310 REVERSE TRANSMITTER | | | |
|---|-------|-------|--------------|
| PARAMETER | Notes | Units | Reverse |
| Technology | | | DFB Uncooled |
| Wavelength (-40 to 85°C) | | nm | 1310+/-20 |
| Passband | | MHz | 5-200 |
| Frequency Response | | +/-dB | 0.75 |
| Input return Loss | | dB | -16 |
| Optical Output Power | | mW | 3 |
| Optical Test Point | | VDC | 1V/mW |
| Return Path NPR @ 41 dB C/(N+IM) | 1 | dB | see plot |
| Optical Connector | | | SC/APC |
| Supply Voltage | | VDC | 24+/- 0.5 |
| Current draw max | | mA | 180 |
| Operating Temperature | | °C | -40 to +60 |

Notes:

1. Typical NPR with 4.8 dB Optical Link (10.56 Km Fiber and passives)



| PRODUCT NAME | ORDER NUMBER |
|-----------------------|-----------------|
| CS RTX GI AM-DFB 1310 | 824-008-250-OCE |
| CS RTX GI AM-DFB 1470 | 824-008-251-OCE |
| CS RTX GI AM-DFB 1490 | 824-008-252-OCE |
| CS RTX GI AM-DFB 1510 | 824-008-253-OCE |
| CS RTX GI AM-DFB 1530 | 824-008-254-OCE |
| CS RTX GI AM-DFB 1550 | 824-008-255-OCE |
| CS RTX GI AM-DFB 1570 | 824-008-256-OCE |
| CS RTX GI AM-DFB 1590 | 824-008-257-OCE |
| CS RTX GI AM-DFB 1610 | 824-008-258-OCE |



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