



# CableServ Return Transmitter for MOTOROLA SG2 Series Optical Nodes

## Product Description

CableServ® offers a series of Return Path transmitter modules for MOTOROLA SG2 Series (Stargate 2000, 2440) 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 to 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

- LED Indicators for Laser Power Alarm and DC Laser Current Test Point
- Laser Power Test Point
- Low Power Consumption
- Two-Year CableServ Warranty



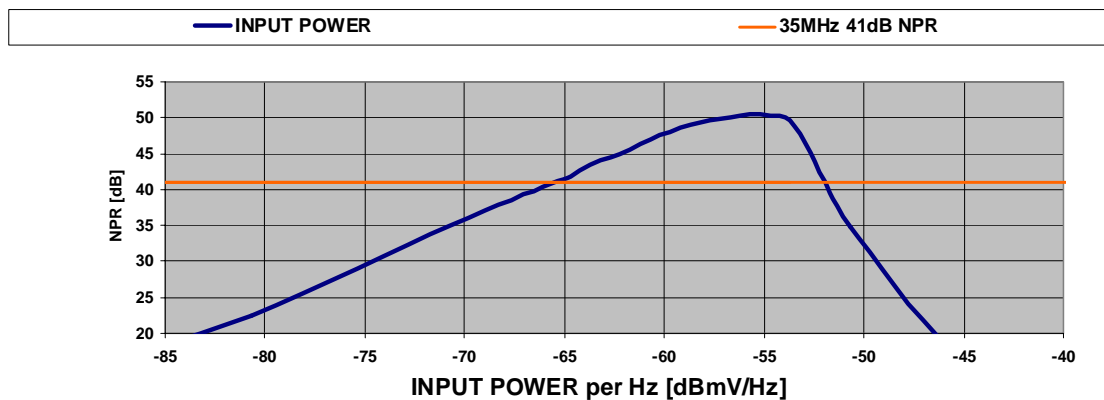
## STARGATE 2000 NODE RETURN TRANSMITTERS

PARAMETER	Notes	Units	Reverse
Technology			DFB Uncooled
Wavelength		nm	1310
Wavelength: WDM Models		nm	1550
Wavelength: CWDM Models (ITU Grid)		nm	1470-1610
Passband		MHz	5-200
Frequency Response		+/- dB	0.5
Input return Loss		dB	-16
Nominal Input Level (CW)		dBmV	+16 +/- 5.0
Optical Output Power		mW	2, 3
Return Path NPR @ 41 dB C/(N+IM)	1	dB	see plot
Optical Connector	2		SC/APC

### NOTES:

1. Typical NPR with 10dB Optical Link (21km Fiber and 3dB Passive loss)
2. Other connector types available on special order.

### STANDARD GAIN SG1 SG2 LASER NPR



824-009-260-0CE	CS RTX GI SG2 DFB 1310 SA	824-009-263-0CE	CS RTX GI SG2 1490 CWDM SA
824-009-260-1CE	CS RTX GI SG2 DFB 1310 FU	824-009-264-0CE	CS RTX GI SG2 1510 CWDM SA
824-009-260-2CE	CS RTX GI SG2 DFB 1310 SU	824-009-265-0CE	CS RTX GI SG2 1530 CWDM SA
824-009-261-0CE	CS RTX GI SG2 DFB 1550 SA	824-009-266-0CE	CS RTX GI SG2 1550 CWDM SA
824-009-261-1CE	CS RTX GI SG2 DFB 1550 FU	824-009-267-0CE	CS RTX GI SG2 1570 CWDM SA
824-009-261-2CE	CS RTX GI SG2 DFB 1550 SU	824-009-268-0CE	CS RTX GI SG2 1590 CWDM SA
824-009-262-0CE	CS RTX GI SG2 1470 CWDM SA	824-009-269-0CE	CS RTX GI SG2 1610 CWDM SA

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