

# MOR-RFoG-A



**MOR - RFoG - A** is a 1 GHz compact size two-way node for DOCSIS FTTH architecture. It provides excellent forward and reverse path performance combined with high reliability and a user-friendly layout.

## Features

- Supports 1 GHz RF pass band
- One fiber WDM for forward and return path
- Optical input AGC
- 91 dB $\mu$ V RF output level
- RF test points for forward and reverse path
- Laser status switch point for installation easily
- LED indicators for optical input, output and power
- Return laser OMI adjustment
- Low power consumption





## Specifications

### Forward Path Specifications

Item	Units	Value
Optical Section		
Wavelength	nm	1550 ± 20
Optical Input Power Range	dBm	- 10 - + 2
Optical AGC Range	dBm	- 10 - + 2
Optical AGC Time Constant	Sec.	1
Optical Return Loss	dB	45
Optical Connector	-	SC / APC
RF Section		
Frequency Range	MHz	54 - 1002
Frequency Response	dB	± 0.5
RF tilt	dB	3.5
RF Output Level	dBuV	91
Return Loss	dB	16
RF Test Point	dB	- 20
Link Section*		
C/N	dB	48
CTB	dB	60
CSO	dB	60

\* Performance measured at 91 dBuV output with 20 km fiber + passive loss, - 3 dBm optical input power, 3.5% OMI. Loaded with 59 PAL D/K CW carriers from 47-550 MHz. Digital refers to 550 MHz to 1 GHz loading with QAM carriers at -10 dB relative to analog CW carrier levels.



### Return Path Specifications

Item	Units	Value
Laser Type	-	DFB
Optical Wavelength	nm	1310 ± 20
Optical Output Power	dBm	0
Optical Return Loss	dB	45
Optical Connector	-	SC / APC
RF Input Range	dBµV	75 - 100
Optical Power Turn on / off Threshold	-	Accordance with the SCTE 174 Standard.
NPR Dynamic Range	dB	20
Transmitter Optical power, high	dBm	3 (RF > threshold)
Transmitter Optical Power, off	dBm	- 20 (RF < threshold)
Turn-on Time	ns	< 700
Turn-off Time	ns	< 700
RF Frequency Range	MHz	5 - 42
RF Frequency Response	dB	± 0.5
RF Return Loss	dB	16
RF Test Point	dB	- 20



### General Specifications

Item	Units	Value
External Supply Voltage	V DC	12 VDC 450mA
RF Connectors	-	F - female, Imperial
RF Impedance	$\Omega$	75
Dimensions (W x H x D)	mm	185 x 122 x 39
Weight	kg	0.4
Operating Temperature	$^{\circ}\text{C}$	-10 - +50

\* Unless otherwise noted, all specifications reflect typical performance and are referenced to 68°F (20°C). Specifications are based upon measurements made in accordance with SCTE/ANSI standards (where applicable), using standard frequency assignments.

### Ordering Information

PART #	DESCRIPTION
824-516-201-0CE	CEL RFOG MICRONODE 1550D/1310U