

OPTICAL MINI NODE [OFCND-x-x-x-x-x-x]

Fiber Products, Optical Nodes



Features

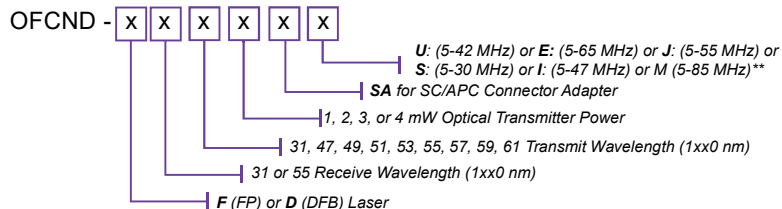
- 5-1002 MHz Frequency Design
- Selection of Forward(Downstream)/Return(Upstream) Frequency Splits
- Compact Aluminum Alloy Housing for Easy Installation
- Output Level +28 dBmV with -1 dBm Optical Input
- -20 dB Test Points for Forward(Downstream) and Return(Upstream) Testing
- RF Power Port or Through Designated F Port (via Power Inserter)
- Standard Bi-directional or Forward(Downstream) Signal Available
- FP or DFB Return(Upstream) Transmitter Lasers Available
- Power Adapter Included

*5-30 or 5-55 MHz upstream available upon special request.

**47-1002 or 70-1002 MHz downstream available upon special request.



Ordering Information



*Note: 3 mW and 4 mW are special order items.

** S: Includes a South American Power Adapter // U: Includes a US Power Adapter // E: Includes a European Power Adapter

J: Includes a Japanese Power Adapter // I: Includes an Indian Power Adapter // M: Includes a Malaysian Power Adapter

** 3 mW and 4 mW are special order items.

† Power Adapters May be Substituted Upon Request

Model Number	Standard Carton Qty	Inner Box Qty	Carton Weight	Dimensions
OFCND-x-x-x-x-x-x	10	1	7.3 kg / 16 lbs	130 x 106 x 34 mm 5.1 x 4.2 x 1.3 in.

Optical Receiver (Downstream)

Optical Wavelength	1200-1620 nm
Input Optical Power	-6 dBm 2 dbm
Optical Return Loss	>55 dB
Optical Connector Type	SC / APC

RF / Optical Receiver (Downstream)

Distortion Testing (@ -1 dBm Optical Input)	
CNR	51 dB
CSO	-62 dBc
CTB	-65 dBc

RF / Optical Receiver (Downstream)

Forward(Downstream) Frequency Range	47/54/70/85/105 - 1002 MHz
RF Output Level (@ -1 dBm input)	28 dBmV
Flatness	+1 dB
Output Return Loss	>16 dB

* Please refer to <http://www.taitin.com.tw/Specifications/warranty.pdf> for our warranty service agreement

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Optical Return Transmitter (Upstream)

Wavelength	1310 nm to 1610 nm*
Laser Type	Fabry-Perot (FP) or DFB

*31, 47, 49, 51, 53, 55, 57, 59, 61
Transmit Wavelength (1xx0 nm)

RF / Radio Frequency (Upstream)

Frequency Range	5-30/42/55/65/85 MHz
Flatness	+1.5 dB
Return Loss	>16 dB

Return Transmitter (Upstream)

Optical Output Power	1 mW	2 mW	3 mW	4 mW
CNR Based on 10 dB Optical Link	46 dB	48 dB	50 dB	51 dB
2nd Intermodulation on 2 Channels	-55 dBc	-55 dBc	-55 dBc	-55 dBc
3rd Intermodulation on 2 Channels	-60 dBc	-60 dBc	-60 dBc	-60 dBc
State Green	Laser Operation is OK			
State Red	Output Power is Below 50%			
Power Inspection	0.8 Vdc/mW	1 Vdc/mW	1 Vdc/mW	1.2 Vdc/mW

General Specifications

Operating Temperature	-30 to 50 °C (-22 to 122 °F)
Power Supply	15 VDC 200 mA
Surge withstand RF in/out ports	6KV, 8/20 us combo wave 3kA 100 kHz ring wave 200A

