

DUAL FIBER OPTICAL MINI NODE

[OFCND-x-x-x-x-x-x/x-x] *Fiber Products, Optical Nodes*

Features

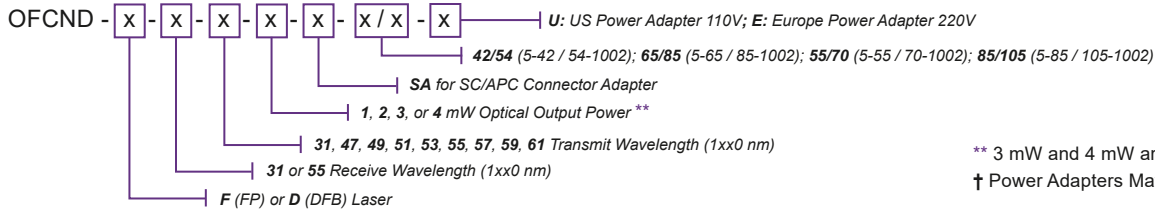
- 5-1002 MHz Frequency Design
- Selection of Forward(Downstream)/Return(Upstream) Frequency Splits
- Compact Aluminum Alloy Housing for Easy Installation
- Output Level +28 dBmV with -1 dBm Optical Input
- -20 dB Test Points for Forward (Downstream) and Return (Upstream) Testing
- RF Power Port or Through 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



** 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/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 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.taikan.com/Downloads/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 |

