

FOR1000-30 Fiber Optic Receiver



- Receive Only Optical Node
- 45-1000 MHz RF Bandwidth
- 28-30 dBmV Output
- SC/APC Optical Connector
- 1100-1600 nm Optical Input
- -16 to +2 dBm Input Window
- 12-16 VDC Powering
- Compact 3.5" x 2.5" Diecast Aluminum Housing

The FOR1000-30 is a compact and rugged fiber optic receiver for receiving optical RF signals and distributing them in an RF system such as a CATV system or a PON network. This one way node receives optical signals at 1310 – 1550 nm with a wide window of -16 to +2 dBm. The node has an output level of 28 to 30 dBmV while maintaining excellent distortion characters.

The FOR1000-30 is built in a die-cast aluminum housing that is powder coated for superior corrosion resistance. It has a separate power supply connection for use with the included wall wart type AC adapter or it can be remotely powered by duplexing the 12 to 16 VDC on the RF cable.

The FOR100-42 is ideal for FTTX applications as well as anywhere a cost-effective optical receiver is needed.

SPECIFICATIONS

Optical	
Optical wavelength	1100-1600nm
Optical input window	-16 to +2 dBm
AGC range	-16 to -8 dBm
Optical Return loss	≥ 45 dB
Optical input connector	SC/APC
RF	
RF Bandwidth	45-1000 MHz
RF Output level	30 dB Typical, 28 dB minimum
RF Output Return loss	≥ 16 dB
RF Connector	F Female
Composite Triple Beat (CTB)	≤ 65 dBc
Composite Second Order (CSO)	≤ 60 dBc
Modulation Error Rate (MER)	37 dB minimum
Mechanical	
Housing	Die Cast Aluminum, IP-65
Size	3.3 x 3.1 x 1.1 Inch (85 x 80 x 28 mm)
Weight	7.5 Oz (0.2 Kg)
Operating Temperature	20 to 130°F (-7 to 45°C)
Power	12-16VDC 300mA
Power Supply	90-230VAC US plug, (UK and European optional)