

iRCVR-4



Compact Optical Receiver, Four Output

The Optilab iRCVR-4 optical receivers are versatile, low cost and compact for use in HFC, PON and deep fiber applications. The iRCVR-4 uses a broadband PIN diode and a low distortion RF amplifier circuit to deliver a sufficient level of CNR, while maintaining optimal CSO and CTB distortion specifications. Designed to operate with very low input level, iRCVR-4 provides high optical gain, and at -8 dBm of input level (OMI index of 3.5%), the iRCVR-4 can still provide 49 dB of CNR and RF output level of 23.7 dBmV. With compact dimensions and light weight housing the iRCVR-4 is the most cost effective solution, and can be utilized in almost any space requirement. Contact Optilab for more information.

Features

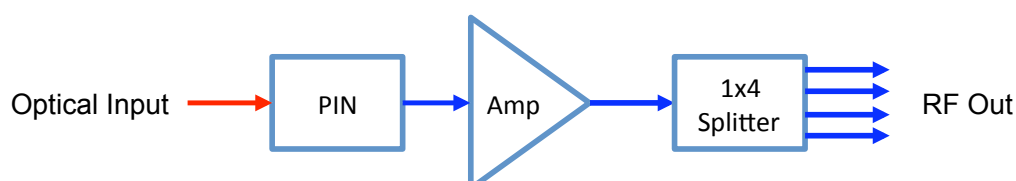
- High linearity with low-noise, high-gain amplifier
- Wide range of input power from +3 dBm to -12 dBm
- Gain control knob for RF output adjustment
- LED input optical power status indicators
- 45 - 870 MHz modulation bandwidth
- Compact, light weight with metal housing
- Operating temperature range from -20°C to +50°C
- 110 V AC power adaptor included
- 3 year warranty standard

Applications

- HFC
- PON
- RFoG
- Deep Fiber Applications
- Optilab is RUS/USDA accepted



Functional Diagram



Compact Optical Receiver, Four Output | iRCVR-4

OPTIONS

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TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

WEB ORDER

To order, please visit OEQuest.com.



Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty

Optical Specifications - Forward Path (Receiver)	
Receiver Wavelength Range	1200 nm - 1600 nm
Input Optical Power	+3 dBm to -12 dBm
RF Output Power Level	25 dBmV typ. @ 0 dBm
Number of Outputs	4
Optical Return Loss	50 dB min.
Carrier to Noise Ratio (CNR)	53 dBc min. @ 0 dBm
Composite Second Order (CSO) Distortion	-52 dBc max. @ 0 dBm
Composite Triple Beat (CTB) Distortion	-50 dBc max. @ 0 dBm
Output Attenuation Range	0 - 18 dB (manual adjustment)
Frequency Range	45 MHz to 870 MHz
Flatness in Frequency Range	±1.0 dB
Output Impedance	75 Ω
Output RF Return Loss	13 dB min.
Mechanical Specifications	
Operating Temperature Range	-20°C to +65°C
Storing Temperature Range	-40°C to +70°C
Optical Connectors	1, SC/APC or customer specified
Power Supply	12 VDC, 100 mA (receiver) 80 – 240 V, 43 – 63 Hz AC (AC adaptor)
Power Consumption	5 W max.
Housing Dimensions	2.5" x 4' x 0.9"
Display	2 LEDs Indicate Optical Input Power Level and Power Supply
Accessories Included	80 – 240 V, 43 – 63 Hz AC (AC adaptor)