

# **ORN-8753**

## **Optical redundancy node**



### **Description:**

**ORN-8753** is an optical receiver (node) destined for providing uninterruptable output RF signal. This is achieved by means of reception and analysis of two optical signals from two independent optical routes. Should one of them get worse or stops, the node automatically switches to the other optical signal.

### **Features:**

- **Microprocessor control**
- **High output level**
- **Power Doubler output**
- **Wide input optical power range: +2 ÷ -9 dBm**
- **Automatic Level Control (ALC) system**
- **Electronic interstage cable corrector and attenuator**
- **Configurable output ports**
- **SC/APC optical connectors**

**Technical specification:**

Wavelength	1290 ÷ 1600 nm
Optic fiber	single mode 9/125 μm
Optic return loss	> 40 dB
Optic connector	SC/APC
Output return loss	> 18 dB @ Z=75 Ω
Frequency range	85 ÷ 862 MHz
Optic input level	-9 ÷ +2 dBm
Equivalent input noise	≤ 8 pA / √Hz
Amplitude response (flatness)	± 0.75 dB
Output levels	≥ 108 dBμV
(@ -9 ÷ +2 dBm & 3.5% OMI/Channel)	
Intermodulation distortions @ output level 112 dBμV <sup>1)</sup>	
- Composite Triple Beat (CTB IMA)	-60dBc
- Cross Modulation (XM IMA)	-55dBc
- Composite 2-th Order Beat (CSO IMA)	-63dBc

Note:

(1) 110 channels with cable corrector -10dB @ 750 MHz

**Plug-ins:**

- JMP-ORN-8753	Jumper
- SP-2W-ORN-8753	Splitter
- INJ-10dB -ORN-8753	Injector
- TEST-20dB-ORN-8753	Test

**General specifications:**

Power supply	88 ÷ 264 VAC
Power consumption	17 W
Ambient temperature range	-5 ÷ +50°C
Index of protection	IP51
Dimensions (W x D x H)	483 x 310 x 51 mm
Weight	4 kg

**Block diagram:**

