



OFN-3175 Optical node



Description:

OFN-3175 is a miniature compact optical node destined for converting optical signal into RF signal thus to provide end users with digital SD (Standard Definition), HD (High Definition) and analog television. Option DF with built-in diplex filter allows for the efficient use of three optical lengths over a single fiber. **OFN-3175** is compatible with ONU (Optical Network Unit) of GPON and EPON. It is ideal solution for home, office and a whole floor of a residential building.

Features:

- ALC system for automatic constant output level maintenance within wide range of input optical power from -7.5 to +1.5 dBm;
- > Input filter for picking out the TV signal wavelength 1550 nm (option F/DF);
- Optical output with filter for ONU with wavelength of 1310/1490 nm (option DF);
- Remote power supply through RF output (option C);
- > LED indication of input optical power;
- Output signal sufficient for feeding several TV sets;
- > Extremely low power consumption;
- Small sized compact housing.



Techincal specification:

Input wavelength for TV signal Output wavelength for ONU Optical return loss Isolation 1550 nm \leftrightarrow 1490 nm Input optical connector Output optical connector Output return loss Frequency bandwidth Input optical power ALC lock range Flatness Output RF level (@-7.5 ÷ +1.5 dBm & 4.2% OMI/Channel) 1290 ÷ 1600 nm 1550 nm (option *F/DF*) 1310/1490 nm (option *DF*) > 40 dB > 40 dB SC/APC SC/PC (option *DF*) > 18 dB @ Z=75 Ω 47 ÷ 862 MHz -15 ÷ +2 dBm -7.5 ÷ +1.5 dBm ± 1 dB ≈ 85 dBµV

Miscellaneous

Power supply: from mains adapter from mains adapter or through RF output Power consumption Operation temperature range Dimensions (L x W x H) Weight

5 VDC ±10% (option **A**) 8 ÷ 35 VDC (option **C**) 1.75 W 0 ÷ +50°C 116 x 92 x 27 mm 0.100 kg

Block diagram

