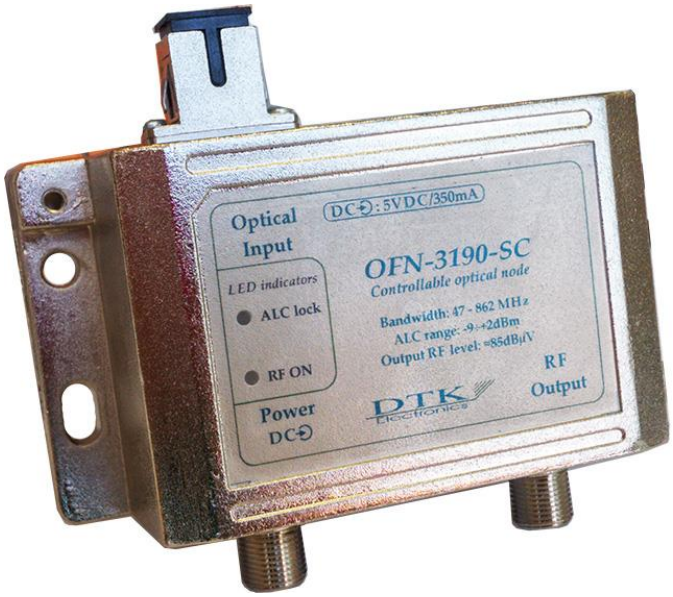
OFN-3190-SC

Optical mini node



Description :

OFN-3190-SC is a compact optical node destined to convert optical signal to RF. Remote control capability is provided to activate and block the RF output. Compact, simple and effective solution for end users serving.

Features:

- ***Remote control (activate and block) of RF output;***
- ***Automatic level control (ALC) system to maintain constant RF output level within wide range of input optical power change;***
- ***LED indication of input optical power and RF output state;***
- ***Extremely low power consumption;***
- ***Small size.***

Technical specifications:

Input wavelength	1290 ÷ 1600 nm 1550 nm (option **F**)
Power and RF connectors	F - 3/8" female
Optical return loss	> 40 dB
Input optical connector	SC/APC
Output return loss	> 18 dB @ Z=75 Ω
Frequency bandwidth	47 ÷ 862 MHz
Input optical power	–15 ÷ +2 dBm
ALC lock range	–9 ÷ +2 dBm
Flatness	± 0.75 dB
Output RF level (@ –9 ÷ +2 dBm & 3.5% OMI/channel)	≈ 85 dBµV
LED indicators:	
○ ALC lock:	
Input optical power +2 ÷ –9 dBm	on (lock)
Input optical power > +2 dBm or < –9 dBm	off (out of range)
○ RF output state:	
active	on
blocked	off

Miscellaneous

Supply voltage	5 VDC ±10%
Power consumption	2.5 W
Ambient temperature range	0 ÷ +50°C
Dimensions (L x W x H)	100 x 76 x 28 mm
Weight	0.170 kg

Block diagram