Micro Node RFoG
LR 83 A 1611

Product information

RFoG Benefits

- Allows deployment of fiber optic access network while reusing existing RF and DOCSIS investments
- Increased bandwidth per subscriber due to better CNR performance
- Low maintenance of the network by reducing number of active equipment on the access network
- Ingress noise reduction through DOCSIS - based burst mode transmitters

Features:

- Compact Node for RFoG Systems
- Compliant to SCTE ISP SP 910
- Extremely low noise receiver
- Optical ALC
- Switching power supply
- DFB-laser for upstream communication
- Upstream test port

Micro Node RFoG LR 83 A 1611

Downstream		
Wavelength	1540 ... 1560 nm	
Optical input power	-6 ... +3 dBm	
Optical return loss	> 40 dB	
Transmission bandwidth	85 ... 1006 MHz	
Output level	0 dB slope 4 dB slope	80 dBµV 96 dBµV
Output return loss	≥16 dB	
Amplitude response	≤ ±1 dB	
Equivalent noise input	typ. 4 pA / √ Hz	
Signal Performance 96 dBµV / 4 dB slope		
CSO	≥ 60 dBc*	
CTB	≥ 65 dBc*	
CNR	≥ 51 dB*	
MER	≥ 40 dB*	
*measured @, 3,3% OMI, -6 dBm @ opt. Receiver channel load 36 analog and 60 QAM256 channels		
Optical input level low / high	LED red	
Optical input level -6 ... +3 dBm	LED green	
Upstream		
Laser	DFB 1610 nm	
Optical output power	3 dBm	
Transmitter turn-on-/ off time	< 800 ns	
Frequency range	5 ... 65 MHz	
Input level	70 ... 100 dBµV	
Return loss	≥18 dB	
Amplitude response	≤ ±1 dB	
Attenuator (2 dB steps)	0 ... 30 dB	
RF test port	70 dBµV @ 15% OMI	
General		
Optical connectors	SC/APC	
Fiber	Single mode 9/125 µm	
RF connectors	F-type, 75 Ω	
Power supply	230 VAC, 50/60 Hz	
Power consumption	≤ 6 W	
Ambient temperature	-10 ... +50°C	
Max. humidity non condensing	95 %	
Dimensions (W x H x D)	163 x 90 x 47 mm	

WISI Communications GmbH & Co. KG
Empfangs- und Verteiltechnik
Wilhelm-Sihn-Straße 5–7
75223 Niefern-Öschelbronn, Germany

Telefon +49 72 33-66-0 Fax -3 20
info@wisi.de
www.wisi.de

CE