

Type		OFN210-FR-1310-085-AC*
Order number		212 107
EAN-Code		4026187197797
Optical node type		Forward path and return path
Optical characteristics		
Optical input wavelength	[nm]	1100...1610
Optical input power	[dBm]	-8... 0
AGC range	[dB]	adjustable -7 / -6 / -5...0
Noise current typ.	[pa/√Hz]	≤ 5
Optical connector type		SC/APC; other on request
Fibre type		Single mode 9/125
RF characteristics forward path		
Frequency range (flexible duplex filter)	[MHz]	87 or 258...1218
Flatness (at Pin = -3 dBm)	[dB]	< ± 1,0
Typ. RF level (MER > 42,5 dB, BER < 1E-9)	[dBμV]	106 **
Interstage attenuation A1	[dB]	0...15, 1 dB steps
Interstage equalizer E1	[Ω]	0...15, 1 dB steps
Output Return Loss	[dB]	18
Output Impedance	[dB]	75
RF testpoint	[dB]	-20 ± 1,0
Optical characteristics return path		
Optical Wavelength	[nm]	1310 nm ±10, 1550 nm ±10 or CWDM
Optical Power	[dBm]	+3,0 ± 0,7 (DFB Laser)
Flatness	[dB]	±1.0
Fibre type		Single mode 9/125
RF characteristics return path		
Recommended RF input level / channel	[dBμV]	70 (A2 set to 7 dB) ***
Frequency range	[MHz]	5 .. 65 or 204 (duplexer dependent)
Attenuator A2	[dB]	0...15, 1 dB steps
Test Port @ Return Laser	[dB]	-20
Return Loss	[dB]	18
Common data		
Power supply	[VAC]	Mains: 150...265 / 50-60
Chassis type		diecast housing
IP Protection class		IP 41
RF Output connector / Test connector		F-female
Power consumption	[W]	≤ 15
Weight	[kg]	1,5
Dimension (L x W x H)	[mm]	220 x 175 x 60
Ambient temperature	[°C]	-30...+65

*) other wavelength and/or duplex filters on request

**) EN60728 Part 3 / 119 channels starting 258 MHz to 1218 MHz / QAM256 / 8 MHz / 6,9 MSym, 0 dB slope,
Pin = -2,5 dBm, TX parameter: 3% OMI, AGC ON, 0 dB slope

***) Return performance with Duplex 65/85 for performance of: MER ≥ 40 dB, BER ≤ 1E-9
(total link with return path RX, opt.input level or return RX -7 dBm, fibre distance < 10 km)
Signaltpe: 6 x QAM256 / 8 MHz / 6,9 MSym / Roll off 0,15 %, f in MHz: 15 / 23 / 31 / 39 / 47 / 55
or Signaltpe: 7 x QAM64 / 6,4 MHz / 5.175 MSym / Roll off 0,15 %, f in MHz: 18 / 24 / 30,8 / 37,4 / 45,2 / 51,8 / 58,4