

Typ	Code	available options
OFN80-FRx-yyy-zz-dd	FRx yyyy zz	F: Forward path / R: Return Path / x: L-low Power, H: high power Reverse Transmitter wavelength (details see below: e.g 1310/1610 etc) Feature field: 00: no feature (2 fiber version) WF: GPON block filter in forward path (2 fiber version) 1F: WDM for forward and return path (1 fiber version)
	dd	Diplexer frequency: 65: 65/85 MHz 85: 85/104 MHz 04: 204/258 MHz
Optical node type		Forward and return path
Optical characteristics forward path		
Optical input wavelength	[nm]	OFN80-FRx-yyy-WF-dd: 1545 .. 1565 OFN80-FRx-yyy-00-dd: 1100 .. 1600 OFN80-FRx-yyy-1F-dd: 1545 .. 1565
Optical input power (max. range)	[dBm]	-10 .. +3 (beyond AGC range, HF Ausgangspegel ändert sich um 2dB je 1dB Änderung des optischen Pegels, höhere optische Leistungen zerstören den Receiver PIN)
AGC range	[dB]	-8... +2
Equivalent noise current typ.	[pA/√Hz]	≤ 5
Optical return loss	[dB]	≥ 45
LED forward path level indication		green: -8.0 .. +2,0 dBm, yellow: < -8,0 dBm, red: > +2,0 dBm
RF characteristics forward path		
Diplex filter configuration	[MHz]	65/85, 85/104 oder 204/258 (see dd Code)
Forward path frequency range	[MHz]	85/104/258 - 1218 (see dd Code)
Flatness	[dB]	± 1,5
RF Level max. acc. EN 60728-3, 119 Channels, QAM 256: BER < 1E-9	[dBμV]	OFN80-FRL-yyy-zz-dd: 82 OFN80-FRH-yyy-zz-dd: 100 (adjustable via Pads 0 ... 20 dB)
Attenuation in forward path		0 ..20 dB Pads
Equalizer / Slope setting	[dB]	0 / 3 / 6 / 9 (fix adjustment with 2 jumpers)
Output Return Loss	[dB]	≥ 18 - 1,5 dB/oct, min. 12
Output Impedance	[dB]	75
RF testpoint	[dB]	-20 ± 1,0
Optical characteristics return path		
Optical Wavelength	[nm]	OFN80-FRx-yyy-00-dd: yyy = 1270/1290 ...1610 ± 3 nm OFN80-FRx-yyy-WF-dd: yyy = 1270/1290 ...1610 ± 3 nm OFN80-FRx-yyy-1F-dd: yyy = 1270/1290 ... 1490/1510/1590/1610 ± 3 nm 1550 ± 40 nm not usable)
Optical Power	[dBm]	+3,0 (DFB Laser)
Gain characteristic flatness	[dB]	±1,0
RF characteristics return path		
Nominal RF upstream level acc. EN 60728-3 24 Channels, QAM 256, BER < 1E-9	[dBμV]	70 ... 90 (adjustable with Pads 0 ... 20 dB)
Frequency range upstream	[MHz]	5-65, 5-85 or 5-204 (see dd Code)
Rückweg Pads		ATT2: First Stage ATT Pad 0..20 dB ATT3: Second Stage ATT Pad 0 .. 10 dB plugin socket or filter
Ingress Rauschminderung	[dB]	0 / 6 / 40 (fix setting with jumpers)
Burst mode parameters / SCTE174_2010 7.1.3 FIGURE 4 Laser turn on time Laser turn off time Laser turn on level Laser turn off level Remaining optical power laser off	μs μs dBμV dBμV dBm	≤ 1.3 ≤ 1.6 67 58 ≤ -30
Mode of return laser	[dB]	continuous or burst mode (selectable with jumper)
Common data		
Optical connector type		SC/APC
Fibre type		Single mode 9/125
Power supply	[VAC / Hz]	230 / 50
Power consumption	[W]	≤ 7,5
IP Protection class		IP 20
RF Output connector / Test connector		F-female
Mounting and operation height	[m]	< 4000 over N.N.
Dimensions (L x W x H)	[mm]	122 x 155 x 55
Ambient temperature	[°C]	-20...+55