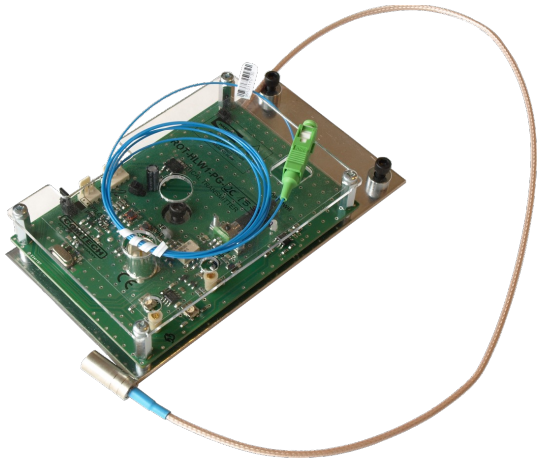
ROT-HLW1-PG Return path optical transmitter module for Harmonic and Antec types

Harmonic HLN-3830 compatibility. Developed by customer request.



- For Harmonic HLN-3830 and Antech LLRX200 optical nodes
- High-linearity DFB or CWDM laser
- Selectable optical connector
- Temperature-compensated construction
- Frequency range 5-85MHz
- Connection to the Monitoring System
- Built-in switchable PILOT generator

Technical specifications

Optical transmitter parameters	ROT-HLW1-PG-2D1310	ROT-HLW1-PG-2Cxxxx	ROT-HLW1-PG-4Cxxxx
Wavelength [nm]	1310	1470-1610	
Spectrumwidth (typical) [nm]	0.1	0.1	
Wavelength accuracy [nm]	-	±3	
Wavelength-change depending on temperature [nm/°C]	0.08	0.11	
Output power [mW]	2	2	4
Noise figure (RIN) [dB/Hz]	-145	-145	
Composite second order(1) [dBc]	-52	-50	
Composite triple beat(1) [dBc]	-62	-55	-60
RF parameters			
Frequency range [MHz]	5-85		
Flatness [dB]	±0.75		
Impedance [Ω]	75		
RF testpoint(2) [dBµV]	-20		
Return loss [dB]	>16		
Nominal input level (10% OMI) [dBµV]	99		
General parameters			
Optical connector type (variable)	SC/APC, FC/APC, EURO2000		
Power supply voltage [V]	24		
Current consumption [mA]	50		
Temperature range [°C]	-20...+70		
Dimensions [mm]	80x148x30		

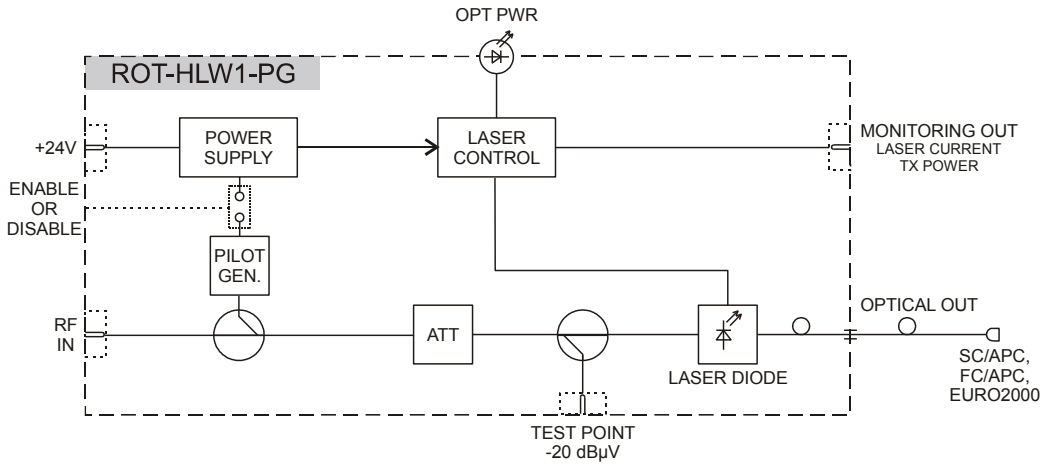
Specifications are subject to change without notice!

PILOT generator parameters

PILOT frequency [MHz]	66.3
PILOT signal level (3% OMI) [dBµV]	89

(1) 2 signals, 25% modulation depth, 5-65MHz
(2) 10% optical modulation index

Block diagram



Ordering information

R	O	T	-	H	L	W	1	-	P	G	-	X	X	X	X	X	X	X	X

Laser type	
2D	DFB laser (2mW)
2C	CWDM laser (2mW)
4C	CWDM laser (4mW)

Wavelength (CWDM)	
1470	1470 nm
1490	1490 nm
1510	1510 nm
1530	1530 nm
1550	1550 nm
1570	1570 nm
1590	1590 nm
1610	1610 nm

Wavelength (DFB)	
1310	1310 nm

Optical connector type	
SA	**SC/APC (Recommended type)**
FA	FC/APC
EU	EURO2000

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