

OAxnnn

OPTICAL AMPLIFIER FOR 2 G6

Application

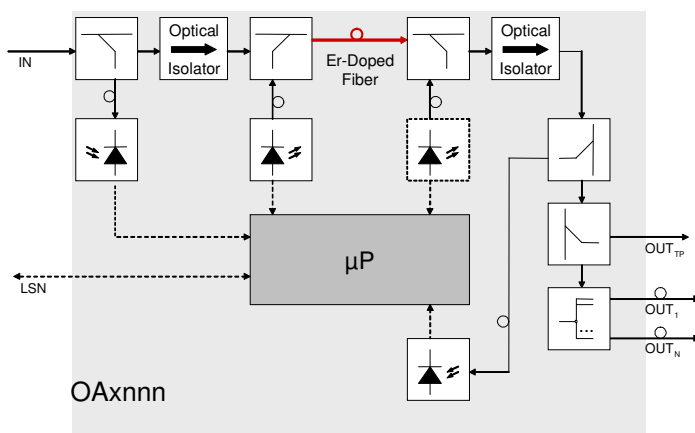
- ▶ Amplification of 1550 nm optical signals on single mode fibers
- ▶ Booster, in-line or distribution amplifier in Hybrid-Fiber-Coax (HFC) networks

Features

- ▶ Erbium doped fiber amplifier technology
- ▶ +13 .. 23 dBm , optical output power per port
- ▶ Up to 8 optical ports (built- in optical splitter)
- ▶ Supervision of the optical input level, optical output level and pump laser current
- ▶ Optical output test port (2 dBm) for testing and further optical amplifier cascading (optional)
- ▶ Automatic switch-off in case of non sufficient optical input power (to prevent optical PIN diode receivers from damage)
- ▶ Standby mode



Block Diagram



Specifications subject to change without notice - DBE_2G6OAxnnn_0_260706

Technical Data
OA Mnemonic

OAxxxx	x= number of output ports n= output power per port (e.g 130 equals 13,0dBm)
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Parameter	Unit	
Available types and output ports:		
OA1130, OA1160, OA1170, OA1200, OA1220, OA1230	No. of output ports	1 output: 13dBm / 16 dBm / 17dBm / 20dBm / 22 dBm / 23dBm
OA2130, OA2160, OA2170, OA2200		2 output: 13dBm / 16 dBm / 17dBm / 20dBm
OA4130, OA4160, OA4170		4 output: 13dBm / 16 dBm / 17dBm
OA8130		8 output: 13dBm
Optical wavelength	(nm)	1540 ... 1560 nm
Noise figure at 0 dBm	(dB)	≤4.8 dB
Optical return loss	(dB)	50
Optical input power range	(dBm)	-4 ... +10 dBm
CSO with CENELEC 42	(dBc)	-80
CTB with CENELEC 42	(dBc)	-90
Supply voltage	(VDC)	24
Power consumption:		
OA1130, OA1160, OA1170, OA2130		≤12 W (≤6 W in standby mode)
OA4130, OA2160, OA2170, OA1200, OA1220		≤24 W (≤10 W in standby mode)
OA1230, OA2200, OA4160, OA4170, OA8130		≤36 W (≤10 W in standby mode)
Output power tolerance	(dB)	±0.5 dB (1551 ... 1556 nm) ±0.8 dB (1548 ... 1560 nm)
Test port (optional) output power	(dBm)	2.0 ± 1.5
Number of Slots for 2G6 chassis		Module width 2 for 12 and 24 W Power Module width 3 for 36 W Power
Weight		
Module width 2		~2.0 kg
Module width 3		~2.8 kg
Optical connector		any HRL type (SC/APC standard)
Equipment operation environmental conditions		Operation: ETS 300 019, class 3.1 Storage temperature: ETS 300 019, class 1.2