

ERBIUM DOPED FIBRE AMPLIFIER - EDFA

APPLICATIONS

- Optical amplification for the wavelength of 1550nm
- Realization of vast HFC- and RFoG-networks
- Decentral signal distribution / amplification in FTTx / xPON-networks
- CATV-overlay in FTTx and xPON-networks



PRODUCT FEATURES

- High optical output power of +18dBm or +21 dBm at each output port (other optical output levels on request)
- Up to 32 possible optical outputs
- Integrated optical isolation of the downstream wavelength of 1550 nm and all other possible wavelengths in upstream for the realization of standard-RFoG, CWDM-RFoG- or GPON-networks
- Low insertion loss in DS&US and high isolation of DS&US (>50dB)
- Low noise figure
- Integrated micro controller and LCD
- Parameter-Display: input/output optical power, pump-bias, temperature and voltage
- Supports SNMP monitoring and WebGUI
- Redundant power supply
- 19", 1 HE Rack Unit type

OA 1155-STANDARD - 18/19/21 dB

Type	Item No.	Number of outputs	Optical output power at each output (dBm)	GPON optimized*	CWDM-RFoG*	Rack units
OA 1155-1-18	57001613	1	18			1
OA 1155-1-21	57001813	1	21			1
OA 1155-4-18	57001810	4	18			1
OA 1155-4-21	57001809	4	21			1
OA 1155-4-21w	57002302	4	21	X	X	1
OA 1155-8-21	57002426	8	21			1
OA 1155-8-21w	57002010	8	21	X	X	1
OA 1155-16-21	57002427	16	21			1
OA 1155-16-21w	57002009	16	21	X	X	2

TECHNICAL SPECIFICATIONS

Performance		Min.	Typ.	Max.	
Optical features	Optical input wavelength (λ)	nm	1545	1565	
	Optical input level	dBm	-5	3	10
	Optical output power (at each output)	dBm	11		21
	Number of ports		1		32
	Noise ratio	dB	4		5.5
	Maximum gain	dB			27
	Polarization dependent loss	dB		0.1	0.3
	Polarization dependent gain	dB			0.5
	Insertion loss (DS&US) (1550nm in DS, CWDM/ 1550 in US)	dB	0.6	0.9	1.6
	Isolation DS/US	dB	50	58	70
General features	SNMP Network Management	dB	RJ 45		
	Power supply	V AC	90	230	65
	Power input	W			50
	Operating temperature	°C	0	22	50
	Storage temperature	°C	-40		85
	Relative humidity	%	5	55	95
	Dimensions	mm		82 x 360 x 90	
	Weight	kg		11.3	

High Isolation between DS/US necessary. Example:

Return receiver (Rx) Input power (dBm)	Gain and isolation DS / US		Optical DS performance at the input of the Upstream-Rx
	21 dB	30 dB	-9 dBm (noise) -29 dBm (noisefree)
	21 dB	50 dB	

* All of the optical amplifiers can be delivered with a special filter for GPON, RFOG or CWDM-RFOG.
All of the optical amplifiers are RFOG optimized, WebGui and SNMP suitable.