

DCT DELTA OA 1155 Standard 18/19/21 dB

ERBIUM DOPED FIBER AMPLIFIER-EDFA



- 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 figureell 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
- 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 und xPON-networks

TYPE	ARTICLE NUMBER	NUMBER OF OUTPUTS	OPTICAL OUTPUT POWER AT EACH OUTPUT (DBM)	GPON OPTIMIZED	CWDM-RFOG*	RACK UNITS
OA 1155-1-18	5700 1613	1	18			1
OA 1155-1-21	5700 1813	1	21			1
OA 1155-4-18	5700 1810	4	18			1
OA 1155-4-21	5700 1809	4	21			1
OA 1155-4-21w	5700 2302	4	21			1
OA 1155-8-21	5700 2426	8	21			1
OA 1155-8-21w	5700 2010	8	21	x	x	1
OA 1155-16-21	5700 2427	16	21			1
OA 1155-16-21w	5700 2009	16	21	x	x	2

PERFORMANCE			INDEX		
OPTICAL FEATURES	Opt. Input Wavelength (λ)	nm	Min	Typ	Max
	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		50	58	70
GENERAL FEATURES	SNMP Network Management			RJ45	
	Power Supply	V AC	90	230	265
	Power Input	W			50
	Operating Temperature	°C	0	22	50
	Storage Temperature	°C	-40		85
	Relative Humidity	%	5	55	95
	Dimensions			482 x 360 x 90	L x B x H
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
-8... -28 dBm	21 dB	30 dB	-9 dBm (noise)
	21 dB	50 dB	-29 dBm (noisefree)

* 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.