

## 0 XFP OPTICAL FIBRE AMPLIFIER 1550 nm

### PRODUCT FEATURES

- DOCSIS 3.1 compatible
- XFP form factor
- High output power up to 17 dBm
- APC (automatic power control) and FLS (forced laser shutdown)
- LVTTTL alarm
- Low power consumption
- Compatible with SCTE 195 2013



### APPLICATIONS

- Compatible with DELTA Electronics XFP chassis
- Optimized for using in connection with OT XFP DWDM
- Broadcast and narrowcast application
- Narrowband amplification in C-band
- Amplification of DWDM-wavelengths in DWDM-networks due to integrated equalizer

The small, pluggable OA XFP DWDM is a full-functioning EDFA module with control circuitry packaged inside. It is totally compatible with the 0 XFP Chassis in respect of size and pin-map. Due to the small size and easy installation, the OA XFP DWDM is designed for single wavelength applications in fibre optic communication systems in core networks, access networks or CATV networks.

The OA XFP DWDM provides very stable output power of up to 17dBm and a noise figure of 6dB in C-band over a wide operating temperature range.

Over I<sup>2</sup>C all of the alarm-parameters such as output alarm, bias current, temperature and power supply can be analysed.

Type	Item No.	Description
OA XFP 16 AGC GF	57004493	XFP EDFA module, 16dBm optical output power, LC / APC, Gain Flattening filter integrated
OA XFP 17 APC	57004182	XFP EDFA module, 17dBm optical output power, LC/APC
OA XFP 17 PC	57004450	XFP EDFA module, 17dBm optical output power, LC/PC
OA XFP 19 APC	57004542	XFP EDFA module, 19dBm optical output power, LC / APC

## TECHNICAL SPECIFICATIONS

Type	Min.	Typ.	Max.	Ref.
OA XFP 17 optical output power	16.5		17.5	1
Tuning range	13.6		17.4	4
Optical output power adjustment range	-5		10	2 / 3
Multi wavelength gain flatness			+9	
Noise figure	5	5.5	6	
Optical isolation	30			5
Return loss	40			6
Optical interface 57004182	LC/APC			
Optical interface 57004450	LC/PC			

#### Notes:

1. Minimum optical input of 0 dBm at wavelength of 1555 nm. Operating at maximum output power.
2. Minimum optical input of -5 dBm at wavelength from 1528.77 nm to 1563.45 nm.
3. Optical amplifier is controlled using constant output power mode which maintains fixed output power regardless of optical input power.
4. Optical output power is adjustable.
5. Peak-to-peak for multiple wavelength signals from 1554.5 nm to 1561.0 nm. For OA XFP 17, optical input at + 9.0 dBm and optical output at + 17.0 dBm.
6. Test Conditions: Optical input power of + 6.0 dBm, optical wavelength =1555 nm, room temperature.