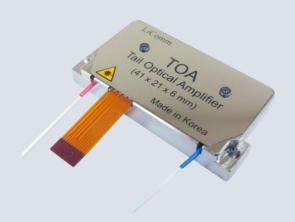
Optical Fiber Amplifier

TOA (Tail Optical Amplifier) Fits in CFP2 platform OFG-TCE Series

LiComm's unique TOA EDFA is small enough to fit into CFP2 units. This world's smallest and unique EDFA for Analog or Digital Coherent Optics ACO/ DCO, takes up little space as it fits into a CFP2 housing efficiently. It's a fully functioning optical amplifier engine with VOA, TOF or both inside. Designed for single wavelength applications in full extended c-band colorless 100G coherent ROADM system, it has a very stable optical power over 0-70°C matched with an extremely low power consumption. This makes it highly suitable for applications of power-equalization or pre-emphasis in densely packaged Communications systems



Features

- Ultra compact size (41.5 x 21.1 x 6.15 mm) and suitable in CFP2 Housing
- Full EDFA Gain Block include VOA, TOF or VOA + TOF
- Full C-band operating wavelength range
- Extremely low power consumption over wide operating temperature range

Applications

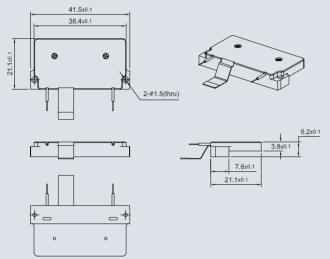
CFP2-ACO or CFP2-DCO of Coherent Transceiver



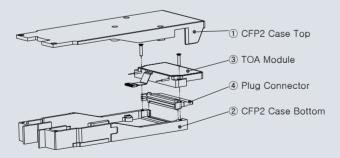




Mechanical Dimension (41.5 x 21.1 x 6.15 [mm])



Assembly drawing (TOA into CFP2)



Optical Fiber Amplifier

TOA (Tail Optical Amplifier)

Optical Characteristics

050 705				
Parameter	Symbol	OFG-TCE		Unit
i didilietei		w/ TOF+VOA	w/o TOF+VOA	Oilit
Signal wavelength range	λ	1528.77 ~ 1568.36		nm
Operating input power	P _{IN}	-30 ~ 5		dBm
Saturation output power ⁽¹⁾	P _{OUT}	Max.12	Max.17	dBm
Small signal gain ⁽²⁾	G _{SS}	Тур. 30		dB
In-band OSNR(3)	OSNRi	Min. 40	Min. 40	dB
Out-band OSNR ⁽³⁾	OSNR ₀	Min. 40	Min. 35	dB
Noise figure		Typ. 7.0		dB
Filter tuning range	FTR	1528~1568	-	nm
Attenuation range	VOA	Min. 20	-	dB
Output optical isolation	O-ISO	Min. 20		dB
Return loss	RL	Min. 40		dB
Polarization mode dispersion	PMD	Max. 0.5		ps
Polarization dependent gain	PDG	Max. 0.5		dB

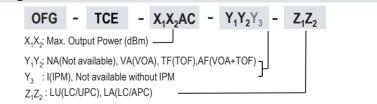
- (1) Input Power = 0dBm
- (2) w/ TOFA+VOA: Input Power = -30dBm, Pout≥0dBm at 1545 nm w/o TOFA+VOA: Input Power = -30dBm, Pout≥+7dBm at 1545 nm
- (3) Input Power = -10dBm, Pout≥0dBm over operating wavelength range

Electric & Environmental Characteristics

Parameter	Typical Value
Operating case temperature	-5 ~ 75 ℃
Storage temperature	- 40 ~ 85 ℃
Storage humidity	5 ~ 85 % R.H
Power consumption ⁽¹⁾	≤ 2.5 W

(1) at Max. output power in normal input power =0dBm and full temperature range Max. P_{Tot} is less than 1.0W at Pout=+10dBm or less.

Ordering Information



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