

O/S/C-band Optical Amplifier

SOA Module

OSA-TxM Series

The LiComm SOA module, OSA-TxM series is triple band optical amplifier which has 3 types of amplifiers and each them can operates in 1310nm or 1490nm or 1550nm. As these three bands are used in FTTx systems for triple play service, OSA-TxM series is highly suitable for long reach or multi-splitting FTTx networks. OSA-TxM series is a full-functioning optical amplifier with control circuitry inside which support monitoring function and power level control. In addition as the OSA-TxM series is very compact size (90 x 50 x 12mm) packaged, and even shows extremely low power consumption, it can be applicable for power equalization or pre-emphasis in very crowded telecom.

Features

- Optical amplifier for O/S/C-band (1310 or 1490 or 1550nm band)
- Ultra compact size (90 x 50 x 12mm)
- Extremely low power consumption over wide operating temperature range
- Include Semiconductor Optical Amplifier
- Including electric control circuit
- Wide input dynamic range
- APC (Automatic Power Control), ALS (Automatic Laser Shutdown)
- Control & monitor by RS232
- LVTTTL Alarm
- Single + 3.3V power supply

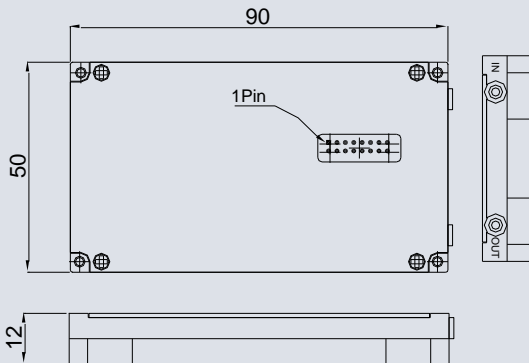
Applications

- PON system
- CATV networks
- DWDM metro & long haul system
 - Power equalization
 - Pre-emphasis
- SONET/SDH system
- OADM access networks



Optical Fiber Amplifier SOA Module

Mechanical Dimension (90 X 50 X 12mm)



Optical Characteristics

Parameter	Symbol	OSA-TSM	OSA-TOM	Unit
Signal wavelength range	λ	1480 ~ 1510	1290 ~ 1330	Nm
Input power	P_{IN}	>-30		dBm
Saturation Output power	P_{OUT}	12		dBm
Small signal gain(1)	G	~20		dB
Noise figure	NF	<9		dB
Optical isolation(2)	ISO	Typ. 30		dB
Return loss	RL	>40		dB
Polarization mode dispersion	PMD	<1		Ps
Polarization dependent gain	PDG	Typ. 1		dB

(1)Input Power = -30dBm

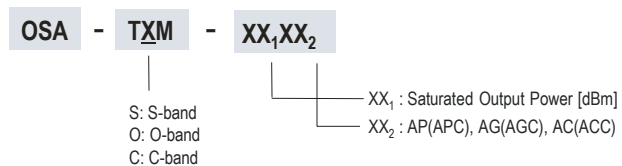
(2)Condition : Room Temperature

Electric & Environmental Characteristics

Parameter	Typical Value
Power supply voltage	+3.3V
Interface	RS232
Alarm	LVTTTL
Operating case temperature	0 ~ 70 °C
Storage temperature	- 40 ~ 85 °C
Storage humidity	5 ~ 85% R.H
Power consumption*	8.0W

*At maximum output power, at 25 °C

Ordering Information



LiComm Co., Ltd.

Korea Head Quarters

908-1, Seo-Ri, Idong-Myeon, Yongin-Si, Gyeonggi-Do,
449-834, S.Korea

Tel: +82-31-323-1926

Fax: +82-31-323-2447

Tel: +1-732-526-7019

Fax: +1-732-837-4279

U.S.A. Branch Office

Japan Distributor

- I-WAVE
- Omni360

Tel: +81-3-3537-1772

Tel: +81-90-2549-4982

Fax: +81-3-3537-1773

Fax: +81-3-3465-0685