Optical Fiber Amplifier
(COMA EDFA)

The LiComm OFA-TCM series are a complete EDFA module with electric control part. It is designed for single wavelength and narrow band fiber optic communication system of core networks, access networks and CATV networks.
The OFA-TCM series provide very stable output power up to 15dBm and a noise figure of less than 6dB in C-band over a wide operating temperature range.
Ultra compact size and extremely low power consumption make the OFA-TCM Series a promising module for power equalization and pre-emphasis in DWDM systems or access networks and CATV networks.

Features

- Ultra compact size (64x40x12mm)
- Uncooled 980nm pump laser module
- Extremely low power consumption over wide operating temperature range
- EDFA module including electric control part
- High output power up to 15dBm
- Wide input dynamic range
- Low noise figure
- APC (Automatic power control) or AGC (Automatic gain control)
- Control & monitor by RS232
- LVTTL Alarm
- Single +3.3V power supply

Applications

- Narrow band amplification in C-band
- CATV networks
- DWDM metro & long haul system
  - Power equalization
  - Pre-emphasis
- Signal loss compensation in switch matrix
- SONET/SDH systems
- OADM access networks

Optical Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
Signal wavelength range	λ	1528	1550	1562	nm
Input power	P_{IN}	-	0	-	dBm
Output power	P_{OUT}	-	-	15	dBm
Small signal gain [1)]	G	-	30	-	dB
Noise figure [2)]	NF	-	5	5.5	dB
Optical isolation	ISO	30	-	-	dB
Return loss	RL	40	-	-	dB
Polarization mode dispersion	PMD	-	-	0.3	ps
Polarization dependent gain	PDG	-	-	0.3	dB

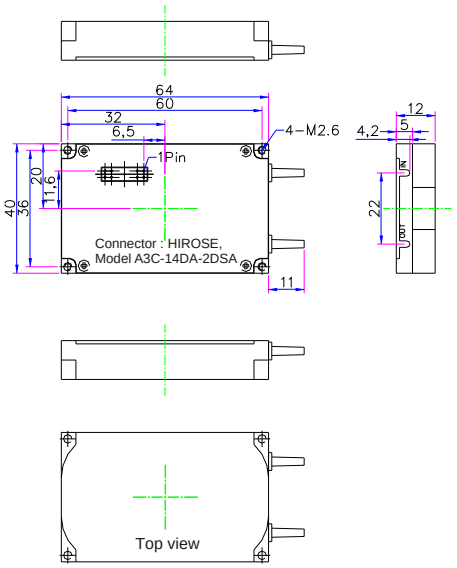
Note 1) Input Power = -30dBm(@1550nm)
2) Input Power = 0dBm(@1550nm)

Electrical & Environmental

Parameter	Typical value
Power supply voltage	+3.3V
Interface	RS232
Alarm	LVTTL
Operating temperature	-20 ~ 70℃
Storage temperature	-40 ~ 85℃
Storage humidity	0 ~ 95% R.H
Power consumption*	1.0 W

* Output power = 15dBm (@25℃)

Mechanical Dimension
(64 x 40 x 12mm)



Ordering Information

OFA - TCM - $X_1XX_2X_3$

X_3 : B(Booster Amp), L(Line Amp), P(Pre-Amp)
XX_2 : Output Power or Gain Value
X_1 : P(Output Power), G(Gain)

LiComm Co., Ltd. **www.licomm.com**
Cheongmyung Towntel 3F
1021-4 Yeongtong-Dong, Yeongtong-Gu, Suwon-Si, Kyunggi-Do, 442-813, Korea
Tel. : +82-31-206-6823 Fax. : +82-31-206-6827