

Highpower EDFA Datasheet

Features

- Electrical control
- Input/output monitors, input/output Isolators, WDM, EYDF, pump LD, PDs and input/output optical connectors

Version History

Date	Version	Description	Author
2024.12.30	1.0	Initialization	Zhang Xuehu

Order Information

Taolink Part Number	Description	Code
WZEDFA-OM-B-30x1-SCAPC	-	-

Functional Diagram

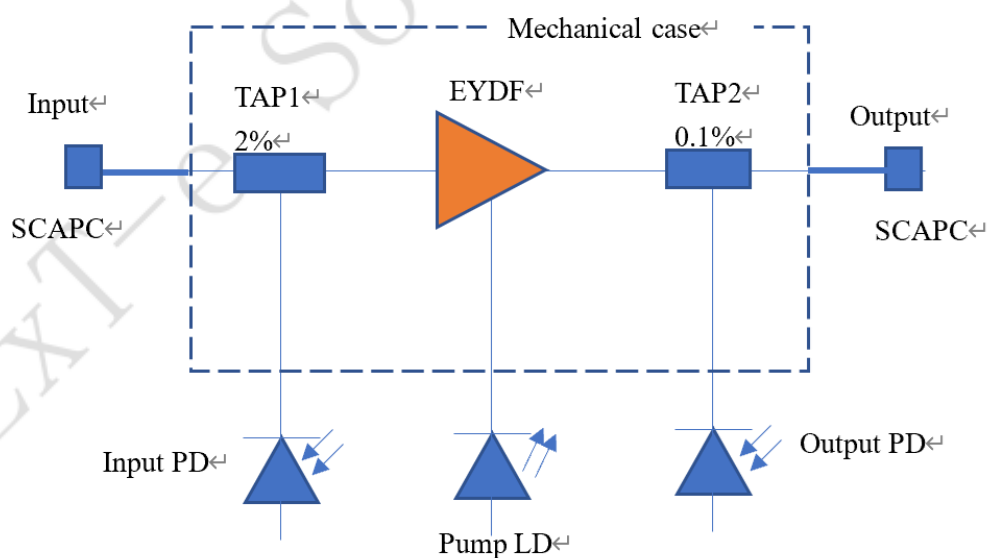
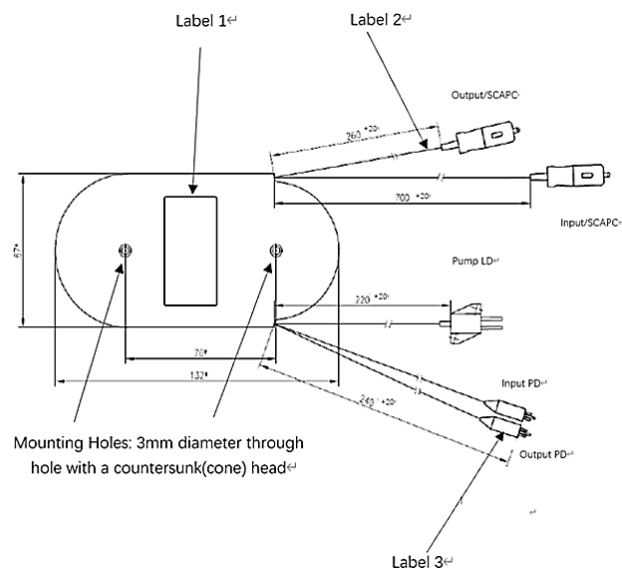


Figure1 Functional Diagram

Optical Characteristics

Parameters	Condition	Min.	Typ.	Max.	Unit
Operating case temperature		15		35	°C
Storage temperature		-20		70	°C
Storage Humidity		15	-	75	%RH
Operating Wavelength	1 λ	1545		1565	nm
Input		-2		0	dBm
Gain			30		dB
Output			30		dBm
NF	In=0dBm		7	8.3	dB
PDG				0.5	dB
PMD				0.5	ps
Input/output isolation		25			dB
Input/Output RL	No power	45			dB
Pump LD wavelength		915	940		nm
Pump LD threshold			1.2		A
Pump LD current			12		A
Pump LD forward voltage			1.6	1.8	V
Pump LD fiber		MMF, 250um without buffer			
Pump LD fiber length			0.22	0.24	m
PD fiber		SMF, 250um without buffer			
PD fiber length			0.24	0.26	m
Input PD responsivity	Refer to IN	15		30	mA/W
Output PD responsivity	Refer to OUT	0.5		2	mA/W
PD dark current	25°C			1	nA
Input/Output fiber		SMF 28, with 900um tight buffer			
Input/Output Connector			SC/APC		
Input fiber length			0.7	0.72	m
Output Fiber length			0.26	0.28	m
Soldering temperature				260	°C
Soldering time				10	S
ESD	HBM			200	V
Gain module size		132*67*10			mm
Environment condition		RoHS 2.0			

Mechanical Dimension Part



Highpower EDFA Datasheet

Features

- Output power monitoring
- 1M Laser Safety Specification compliance

Version History

Date	Version	Description
2024/12/30	1.0	Initialize

Operation/Storage Temperature and Humidity

Parameter	Specification	Unit	Note
Operating temperature	-10 ~ 65	°C	
Operation Humidity	5~90	%RH	
Storage Temperature	-25 ~ +85	°C	
Storage Humidity	5~95	%RH	

Optical Characteristics

Parameter	MIN	TYP	MAX	UNITS
Wavelength	1524.3 1528.5		1572.27 1568.0	dB
Gain Range		35		dB
Input Power	-21		0	dBm
Output Power		34		dBm
Gain Ripple			1.5	dB
Noise Figure			6.5	dB
Power Consumption			80	W
Size		200*120*29		mm

Mechanical Dimension

Customized

Pin Functionality

Customized