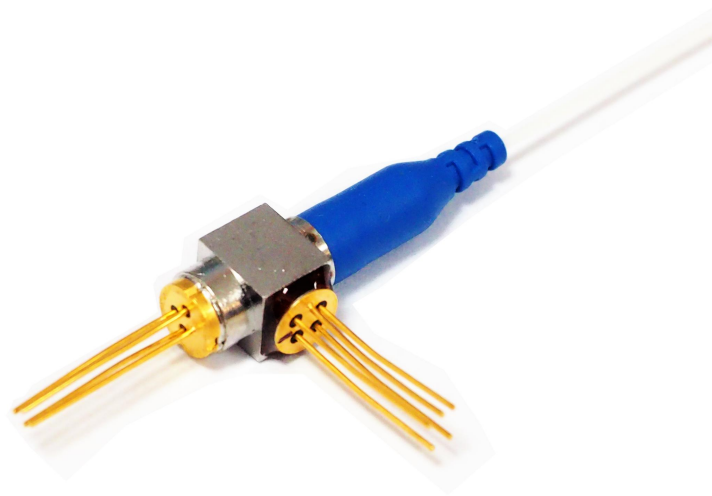


GPON ONU BOSA



Product Introduction

PLDM586-xxx is a bi-directional transceiver device suitable for GPON ONU application. The device consists of a transmitter, a receiver, WDM filter and a single mode fiber pigtail . The transmitter section uses the uncooled 1310nm DFB Laser Chip with a monitor photodiode, the receiver section uses the 1490nm Continue-Mode APD or PIN Receiver with Super TIA.

Features

- 1310nm /1.244Gb/s upstream
1490nm/2.488Gb/s downstream
- Operating case temperature range: -10~85°C
- Single mode fiber pigtailed with SC connector

Applications

- GPON optical transceiver at ONU side
- Other applications

Standards

- G984.5
- Compliant to ROHS6 with exemption 6A,6c,7c-1

Specifications

Parameter	Unit	Specifications
Optical Output Power	dBm	$\geq 0 @ I_{th} + 20mA$
Optical Sensitivity	dBm	≤ -29
Optical Saturation	dBm	≥ -7

Ordering Information

Part No.	Specifications									Applica tion
	Package	Data rate(Gb/s)	Laser	Optical Power (dBm)	Detector	Sensitivity (OMA) dBm	Top	Reach (km)	Other	
PLDM58 6-xxx	BOSA	Tx:1.25 Rx:2.5	1.3D FB	≥ 0	APD+ TIA or PIN+T IA	≤ -29	-10~ 85°C	20		

Electric Ports Definition

Parameter	Symbol	Unit	Min	Typ	Max	Note
TIA Supply Voltage	Vcc	V	3.05	3.3	3.55	
TIA Supply Current	Icc	mA	-	-	60	
(APD Breakdown Voltage)	Vbr	V	30	-	55	