

Coaxial Pigtail 1310nm/1550nm Fabry-Perot LD



GLD100 series lasers are InGaAsP/InP MQW Fabry-Perot laser diodes at either 1310nm or 1550nm wavelength for up to 3.2Gb/s transmission applications. The laser diode is mounted into a coaxial package integrated with an InGaAs monitor PD and a single mode 1-meter long 900um diameter fiber pigtail.

Features:

- Uncooled 1310nm/1550nm Fabry-Perot MQW Laser Diode
- Built-in InGaAs PD Monitor
- High-Speed Operation Up to 2.5Gbps
- Laser Welding Assembly Method
- High Reliability
- Complied with Telcordia GR-468
- Complied with RoHS

Absolute maximum ratings

Parameter	Symbol	Ratings	Unit
Storage temperature	Tstg	-40~+85	°C
Operating case temperature	Top	-40~+85	°C
Fiber output power	Pf	4	mW
Reverse voltage (LD)	VrL	2	V
Reverse voltage (PD)	VrP	10	V
Reverse current (PD)	IrP	2	mA
Soldering temperature (<10s)	Stemp	260	°C

Electrical and optical characteristics (Tc=+25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold current	Ith	CW	—	10	15	mA
Optical output power	Pf	CW, If=Ith+20mA	0.5	—	2.5	mW
Operating voltage	Vf	CW, If=Ith+20mA		1.2	1.5	V
Center Wavelength	λ_c	CW	1280	1310	1340	nm
			1520	1550	1580	
RMS Spectrum Width	$\Delta\lambda$	CW, If=Ith+20mA		1.0	3.0	nm

