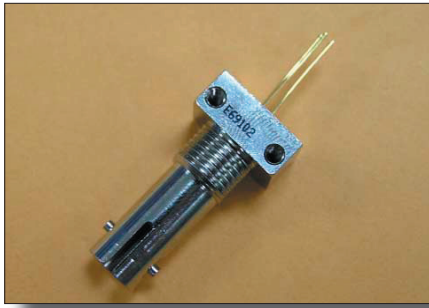


LDR-FX-XXZ-X-T-XXSTSA-XX



Features

- 1310nm or 1550nm Wavelength
- High Optical Power
- Low Threshold Current
- High Operating Temperature
- High Speed
- Rear Facet Monitor
- Uncooled
- Custom Designed ST-A Receptacle
- For Singlemode & Multimode Use
- ST Active device Mount
- Design for fiber-optics networks
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25°C) λ=1310nm & λ=1550nm

Parameter	Symbol	Value	Unit	Note
Fiber Output Power L/M/H/U	P _f	1(L)/1.5(M)/2.5(H)/3(U)	mW	λ=1310nm
		0.6(L)/1(M)/2(H)/2.6(U)		λ=1550nm
LD Reverse Voltage	V _{RLD}	2	V	-
PD Reverse Voltage	V _{RPD}	10	V	-
PD Forward Current	I _{FPD}	2.0	mA	-
Operating Temperature	T _{opr}	-40 ~ 85	°C	-
Storage Temperature	T _{stg}	-40 ~ 85	°C	-

(All optical data refer to a coupled 9/125µm SM fiber & 50/125µm MM fiber)

Optical and Electrical Characteristics (Tc=25°C λ=1310nm)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions	
Threshold Current	I _{th}	-	10	15	mA	CW	
Output Power	P _f	L	0.2	-	0.5	mW	CW, I _{op} =I _{th} +20mA Kink free
		M	0.5	-	1		
		H	1	1.6	-		
		U	1.7	2	-		
Peak Wavelength	λ	1290	1310	1330	nm	CW, P _f =P _f (Min)	
Spectral Width (RMS)	Δλ	-	2	5	nm	CW, P _f =P _f (Min)	
Forward Voltage	V _f	-	1.2	1.5	V	CW, P _f =P _f (Min)	
Rise Time/Fall Time	T _r /T _f	-	-	0.5	ns	CW, P _f =P _f (Min), I _{bias} =I _{th} , 10~90%	
		-	-	0.15		CW, P _f =P _f (Min), I _{bias} =I _{th} , 20~80% Level length=1mm	
Tracking error	ΔP _f /P _f	-1.5	-	1.5	dB	APC, -40 to +85°C	
PD Monitor Current	I _M	100	-	-	µA	CW, P _f =P _f (Min), V _{RPD} =2V	
PD Dark Current	I _{DARK}	-	-	0.1	µA	V _{RPD} =5V	
PD Capacitance	C _t	-	6	15	pF	V _{RPD} =5V, f=1MHz	

**Note: 1.Pin assignment can be customized.
2.Specifications subject to change without Notice.**

LDR-FX-XXZ-X-T-XXSTSA-XX

(All optical data refer to a coupled 9/125 μ m SM fiber & 50/125 μ m MM fiber)

Optical and Electrical Characteristics ($T_c=25^\circ\text{C}$ $\lambda=1550\text{nm}$)							
Parameter		Symbol	Min	Typ	Max	Unit	Test Conditions
Threshold Current		I_{th}	-	10	15	mA	CW
Output Power	L M H U	P_f	0.2	-	0.5	mW	CW, $I_{op}=I_{th}+25\text{mA}$ Kink free
			0.5	-	1		
			1	1.6	-		
			1.7	2	-		
Peak Wavelength		λ	1530	1550	1570	nm	CW, $P_f=P_f(\text{Min})$
Spectral Width (RMS)		$\Delta\lambda$	-	2	5	nm	CW, $P_f=P_f(\text{Min})$
Forward Voltage		V_f	-	1.2	1.5	V	CW, $P_f=P_f(\text{Min})$
Rise Time/Fall Time	3 4	T_r/T_f	-	-	0.5	ns	CW, $P_f=P_f(\text{Min})$, $I_{bias}=I_{th}$, 10~90% Level length=1mm
			-	-	0.15		
Tracking error		$\Delta P_f/P_f$	-1.5	-	1.5	dB	APC, -40 to +85 $^\circ\text{C}$
PD Monitor Current		I_M	100	-	-	μA	CW, $P_f=P_f(\text{Min})$, $V_{RPD}=2\text{V}$
PD Dark Current		I_{DARK}	-	-	0.1	μA	$V_{RPD}=5\text{V}$
PD Capacitance		C_t	-	6	15	pF	$V_{RPD}=5\text{V}$, $f=1\text{MHz}$

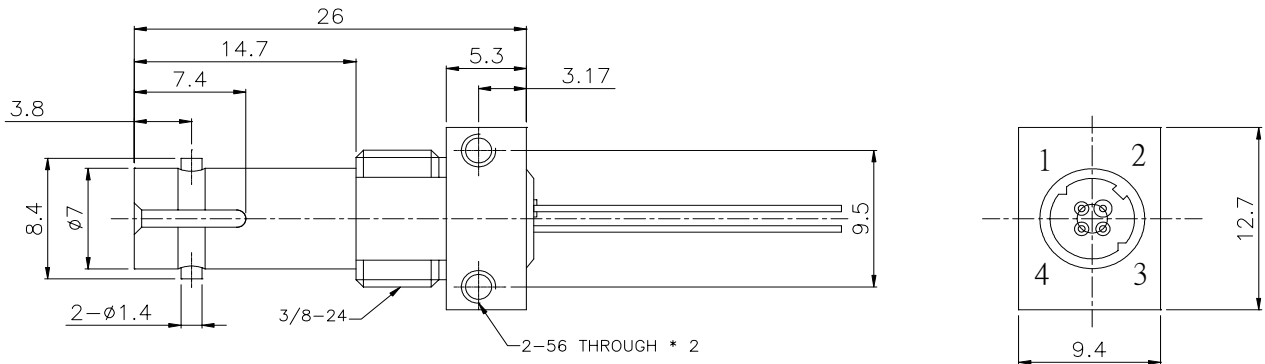
Note: 1.Pin assignment can be customized.

2.Specifications subject to change without Notice.

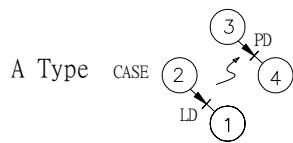
Outline Drawing

Units in mm

Receptacle Package Style : ST - A Type



LD Pin Assignment



- Pin 1 : Laser Cathode
- Pin 2 : Laser Anode and Case Gnd
- Pin 3 : Monitor Diode Anode
- Pin 4 : Monitor Diode Cathode



- Pin 1 : Laser Anode and Monitor Diode Cathode
- Pin 2 : Case Gnd
- Pin 3 : Laser Cathode
- Pin 4 : Monitor Diode Anode

LDR-FX-XXZ-X-T-XXSTSA

Ordering Information

LDR-FX-XXZ-X-T-XXSTSA-XX

Family
LDR=LD Receptacle

Application
3=1.25Gbps
4=2.5Gbps

Tolerance
Z= ± 20 nm

Temperature
T= -40~+85°C

Fiber
S=9/125 μ m
M=50/125 μ m

Stub
S=Fiber Stub

Device
F=FP

Wavelength
31:1310nm
55:1550nm

Power
L/M/H/U

Pinout
A/D

Connector
ST

Option
A=ST-A

RoHS Compliant
-/G5/R5

Blank = RoHS non-compliant product
G5 = RoHS 5/6-compliant product (lead exemption)
GR = Full RoHS compliant product (no exemption)

Warnings:

Handling Precautions: This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.
Laser Safety: Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

Legal Notes:

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