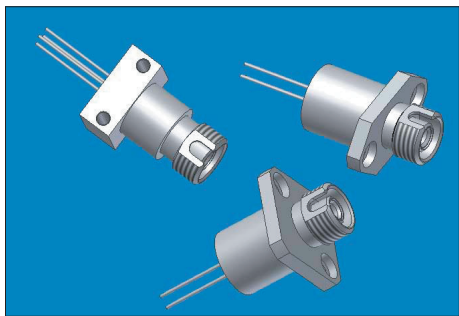


LDR-FC-XXZ-X-T-XXFCNX-XX



Features

- 1310nm or 1550nm Wavelength
- High Optical Power
- Low Threshold Current
- High Operating Temperature
- High Speed
- Rear Facet Monitor
- Uncooled
- Custom Designed FC Receptacle
- For Singlemode & Multimode Use
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Condition	Rating	Unit
LD Reverse Voltage	V _{RLD}	CW	2.5	V
LD Forward Current	I _F	CW	150	mA
PD Forward Current	I _{FDP}	CW	2.0	mA
PD Reverse Voltage	V _{RDP}	CW	15	V
Operating Temperature	T _{opr}	-	-40 ~ 85	°C
Storage Temperature	T _{stg}	-	-40 ~ 85	°C

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

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

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Wavelength	λ	1290	1310	1330	nm	CW
Spectral Width	Δλ	-	2	5	nm	CW(RMS)
Threshold Current	I _{th}	-	10	15	mA	CW
Output Power (SM, 9/125µm)	P _f	200	-	500	µW	CW, I _{op} =I _{th} +20mA Kink free
L		500	-	1000		
M		1000	-	-		
H		2000	-	-		
Output Power(MM, 50/125µm)	P _f	200	-	500	µW	CW, I _{op} =I _{th} +20mA Kink free
L		500	-	1000		
M		1000	-	-		
H		2000	-	-		
Rise Time/Fall Time	T _r /T _f	-	0.5	-	ns	
Forward Voltage	V _f	-	1.2	1.7	V	CW
Tracking error	ΔP _f /P _f	-1.5	-	+1.5	dB	-40 to +85°C
Monitor Current	I _{PD}	0.05	-	-	mA	CW(I _{op})
Monitor Dark Current	I _D	-	0.3	1.0	µA	V _{rd} =5V
Monitor Capacitance	C _{PD}	-	10	-	pF	F=1MHz, V _{rd} =5V

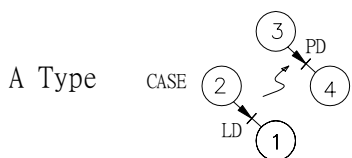
LDR-FC-XXZ-X-T-XXFCNX-XX

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

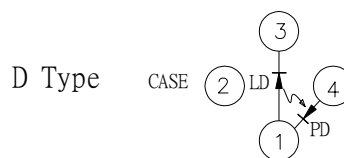
Optical and Electrical Characteristics 1550nm (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Wavelength	λ	1530	1550	1570	nm	CW
Spectral Width	$\Delta\lambda$	-	3	5	nm	CW(RMS)
Threshold Current	I_{th}	-	10	15	mA	CW
Output Power (SM, 9/125 μ m)	P_i	200	-	500	μ W	CW, $I_{op}=I_{th}+25mA$ Kink free
L		500	-	1000		
M		1000	-	-		
H		2000	-	-		
Output Power(MM, 50/125 μ m)	P_i	200	-	500	μ W	CW, $I_{op}=I_{th}+25mA$ Kink free
L		500	-	1000		
M		1000	-	-		
H		2000	-	-		
Rise Time/Fall Time	T_r/T_f	-	0.5	-	ns	
Foward Voltage	V_f	-	1.2	1.7	V	CW
Tracking error	$\Delta P_i/P_i$	-1.5	-	+1.5	dB	-40 to +85°C
Monitor Current	I_{PD}	0.05	-	-	mA	CW(I_{op})
Monitor Dark Current	I_D	-	0.3	1.0	μ A	$V_{rd}=5V$
Monitor Capacitance	C_{PD}	-	10	-	pF	$F=1MHz, V_{rd}=5V$

LD Pin Assignment



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

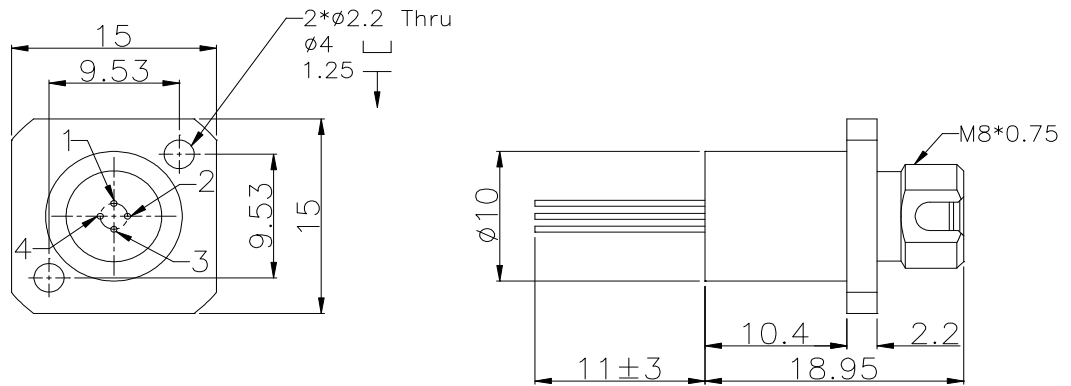


- Pin 1 : Laser Anode and Monitor Diode Cathode
- Pin 2 : Case Gnd
- Pin 3 : Laser Cathode
- Pin 4 : Monitor Diode Anode

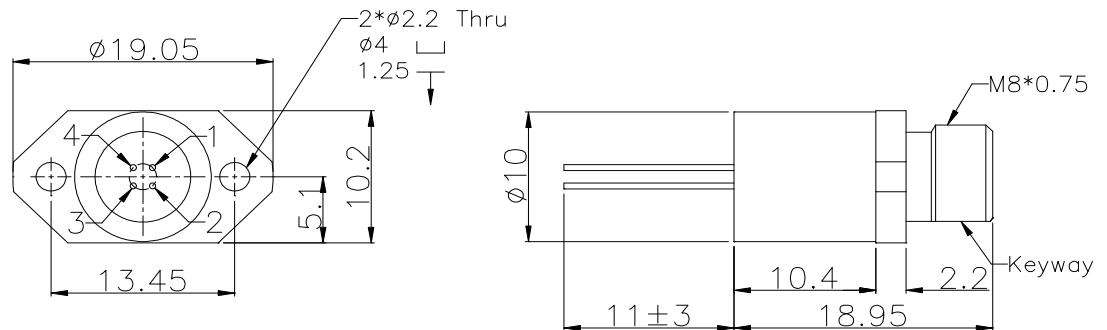
Outline Drawing

Units in mm

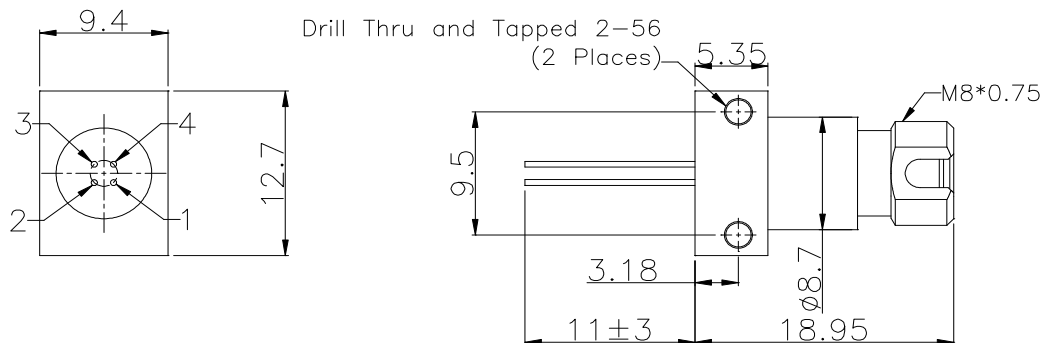
Package Style: "E":FC



Package Style: "G":FC-SF



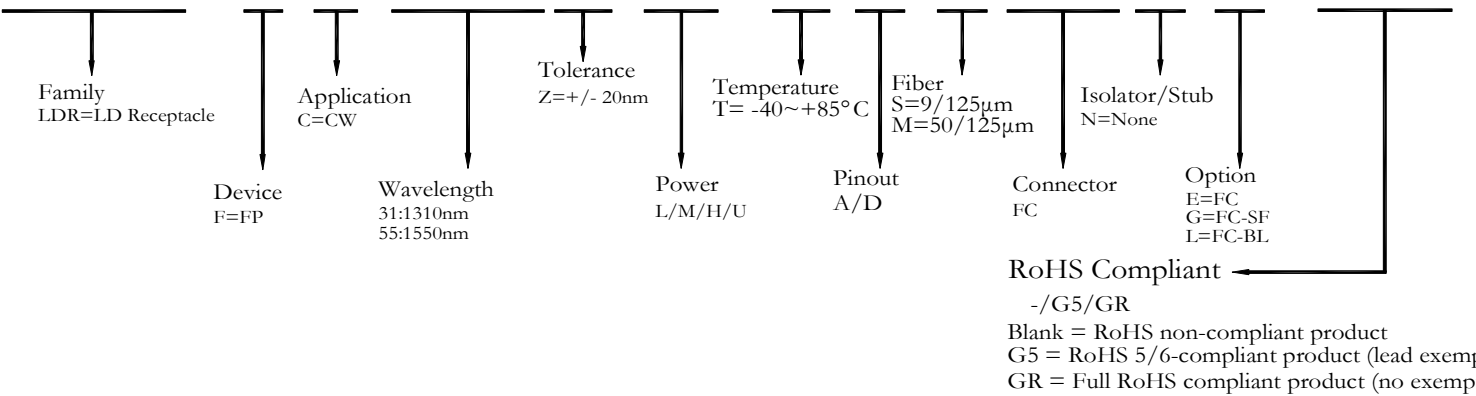
Package Style: "L":FC-BL



LDR-FC-XXZ-X-T-XXFCNX-XX

Ordering Information

LDR-FC-XXZ-X-T-XXFCNX-XX



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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