

EDR-L-XXB-X-XFCX-XX



Features

- 1300nm or 1550nm Wavelength
- High Optical Power
- High Operating Current
- High Operating Temperature
- Low Modal Noise
- For Singlemode & Multimode use
- Custom Designed FC Receptacle
- For Datacom or Measurement Applications
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Condition	Rating	Unit
Reverse Voltage	V_r	CW	2.5	V
Forward Current	I_f	CW	150	mA
Operating Temperature	T_{opr}	-	-20 ~ 70	°C
Storage Temperature	T_{stg}	-	-40 ~ 85	°C

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

Optical and Electrical Characteristics 1300nm (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Wavelength	λ	1260	1300	1340	nm	CW
Spectral Width	$\Delta\lambda$	30	-	70	nm	CW(FWHM)
Operating Current	I_{op}	-	80	-	mA	CW
Output Power (SM, 9/125µm)	P_o	10	-	-	µW	CW at $I_{op}=80mA$
L		50	-	-		
M		100	-	-		
H		150	-	-		
Output Power (MM, 50/125µm)	P_o	50	-	-	µW	CW at $I_{op}=80mA$
M		100	-	-		
H		200	-	-		
Spectral Ripple		-	-	10	%	$\lambda \pm 10nm$
Forward Voltage	V_f	-	1.2	2.0	V	CW
Rise Time	T_r	-	1.5	-	ns	
Fall Time	T_f	-	2.5	-	ns	
Output Power Variation		-	4	-	dB	25°C to 70°C

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

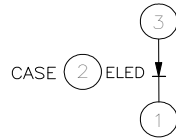
Optical and Electrical Characteristics 1550nm (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Wavelength	λ	1510	1550	1580	nm	CW
Spectral Width	$\Delta\lambda$	45	-	100	nm	CW(FWHM)
Operating Current	I_{op}	-	80	100	mA	CW
Output Power (SM, 9/125 μ m)	P_o	10 20 30	- - -	- - -	μ W	CW at I_{op} =80mA
L						
M						
Output Power (MM, 50/125 μ m)	P_o	30 50 70	- - -	- - -	μ W	CW at I_{op} =80mA
L						
M						
H						
Spectral Ripple		-	-	10	%	$\lambda \pm 10$ nm
Forward Voltage	V_f	-	1.2	2.0	V	CW
Rise Time	T_r	-	1.5	-	ns	
Fall Time	T_f	-	2.5	-	ns	
Output Power Variation		-	4	-	dB	25°C to 70°C

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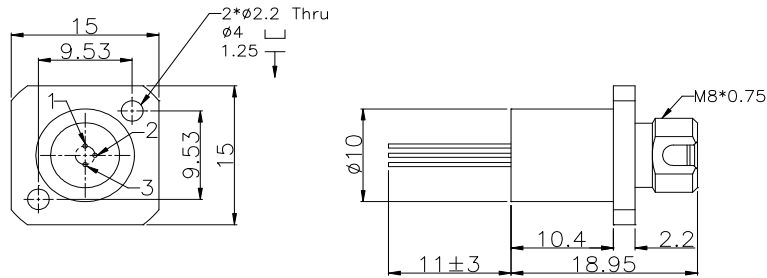
Pin Assignment

Units in mm.

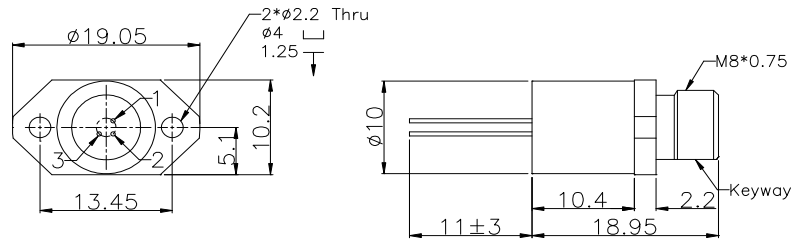


Pin 1: ELED Cathode
 Pin 2: Case
 Pin 3: ELED Anode

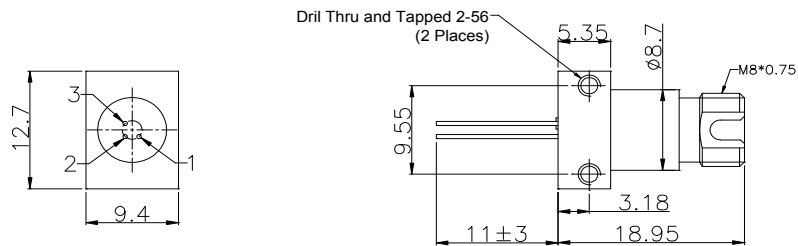
Package Style: "E":FC



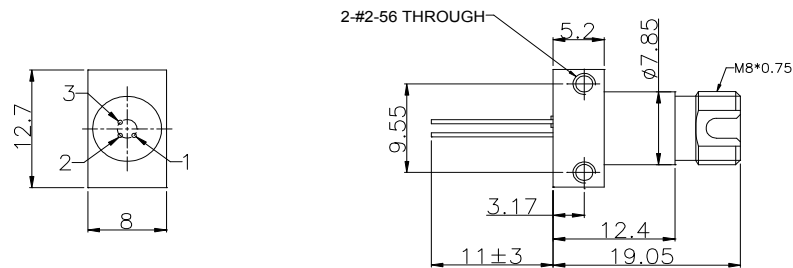
Package Style: "G":FC-SF



Package Style: "L":FC-BL



Package Style: "F":FC-L



EDR-L-XXB-X-XFCX-XX

Ordering Information

EDR-L-XXB-X-XFCX-XX

Family
EDR=ELED Receptacle

Device
L=Long

Wavelength
30:1300nm
55:1550nm

Tolerance
B=+/- 40nm

Power
L/M/H/U

Fiber
S=9/125µm
M=50/125µm

Connector
FC = FC

Option
E=FC
G=FC-SF
L=FC-BL
F=FC-L

RoHS Compliant
Blank/G5/GR
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.

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