

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
- For Single mode use
- 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	-	-		
U		-	-	-		
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 9/125μm SM & 50/125μm 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, 9/125μm)	P_o					
L		10	-	-	μW	CW at $I_{op}=80mA$
M		20	-	-		
H		30	-	-		
Output Power (MM, 50/125μm)	P_o					
L		30	-	-	μW	CW at $I_{op}=80mA$
M		50	-	-		
H		70	-	-		
Spectral Ripple		-	-	10	%	$\lambda \pm 10nm$
Foward 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

Ordering Information

EDR-L-XXB-X-XFCX-XX

Family

EDR=ELED Receptacle

Device
L=Long

Wavelength

30:1300nm
50:1550nm

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

-/G5/GR

Blank = RoHS non-compliant product

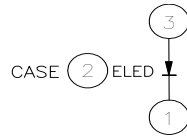
G5 = RoHS 5/6-compliant product (lead exemption)

GR = Full RoHS compliant product (no exemption)

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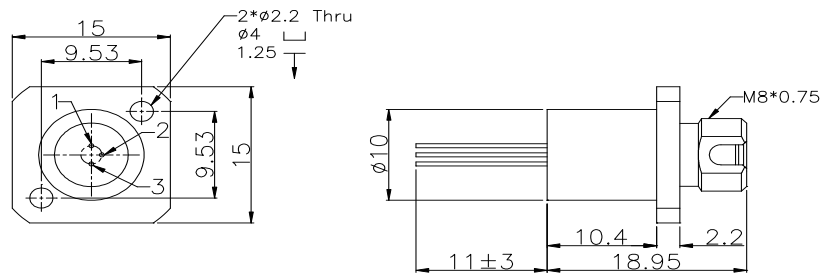
Pin Assignment

Units in mm.

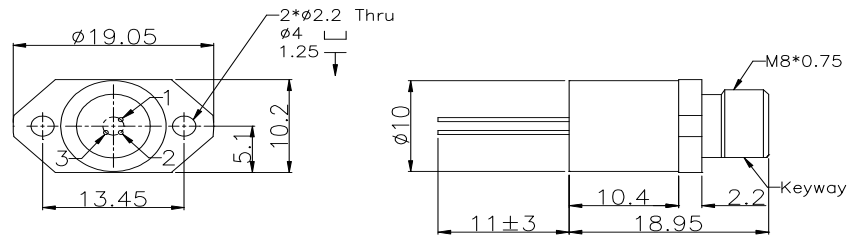


Pin 1: ELED Cathode
Pin 2: Case
Pin 3: ELED Anode

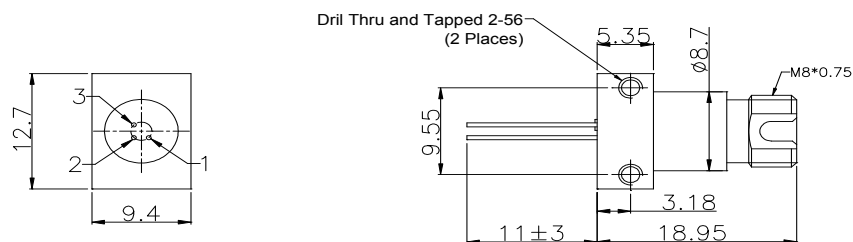
Package Style:"E":FC



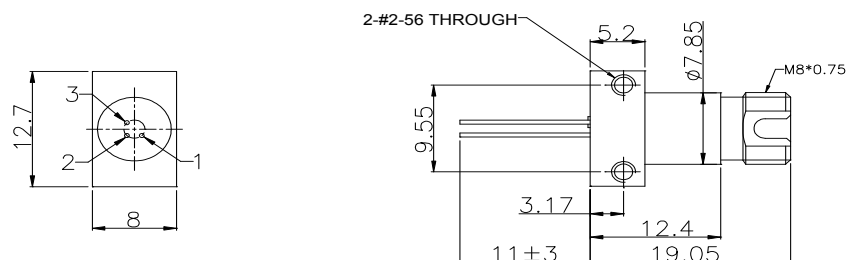
Package Style:"G":FC-SF



Package Style:"L":FC-BL



Package Style:"F":FC-L



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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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