



Features

- 1300nm or 1550nm Wavelength
- High Optical Power
- High Operating Current
- High Operating Temperature
- Low Modal Noise
- For Single-mode & Multi-mode 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 9/125 μ m SM & 50/125 μ m MM fiber)

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

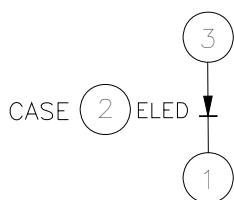
Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Wavelength	λ	1260	1300	1340	nm	CW
Spectral Width	$\Delta \lambda$	30	-	70	nm	CW (FWHM)
Operating Current	I_{op}	-	80	-	mA	CW
Output Power (SM, 9/125 μ m)	P_o	10	-	-	μ W	CW at I_{op} =80mA
L		50	-	-		
M		100	-	-		
H		150	-	-		
Output Power (MM, 50/125 μ m)	P_o	50	-	-	μ W	CW at I_{op} =80mA
M		100	-	-		
H		200	-	-		
U						
Spectral Ripple		-	-	10	%	$\lambda \pm 10$ nm
Forward Voltage	V_f	-	1.2	2	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, I_{op} =30mA

(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	Notes
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	-	-	μ W	CW at I _{op} =80mA
L						
M						
H						
Output Power (MM, 50/125 μ m)	P _o	30	-	-	μ W	CW at I _{op} =80mA
L						
M						
H						
Spectral Ripple		-	-	10	%	$\lambda \pm 10\text{nm}$
Forward Voltage	V _f	-	1.2	2	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, I _{op} =30mA

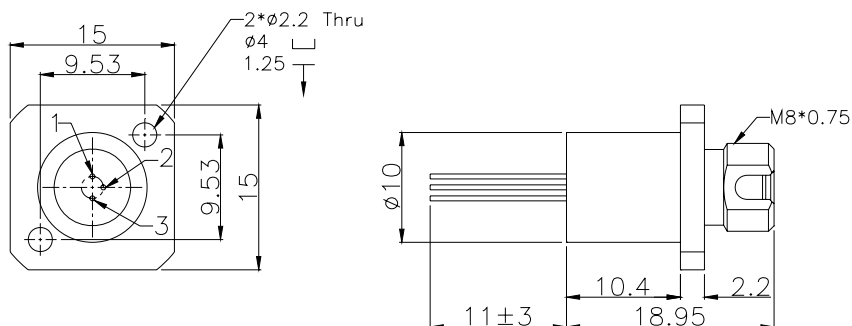
Pin Assignment



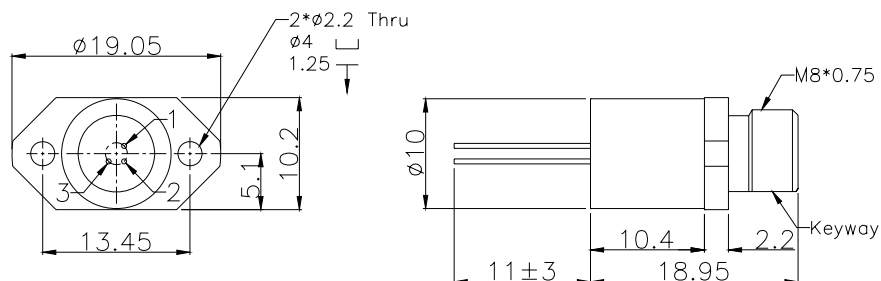
Pin 1: ELED Cathode
Pin 2: Case
Pin 3: ELED Anode

Packaging Dimension (Units in mm)

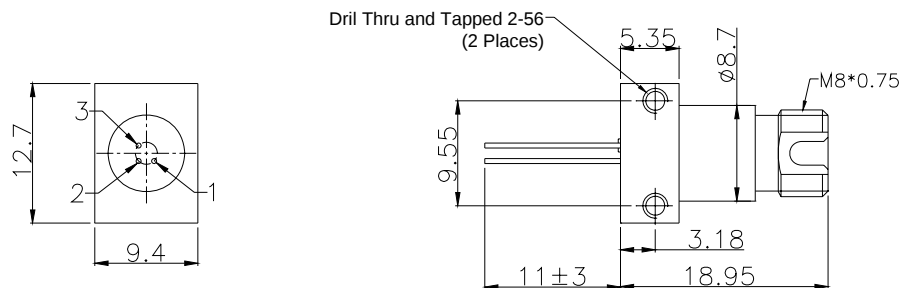
Package Style:"E":FC



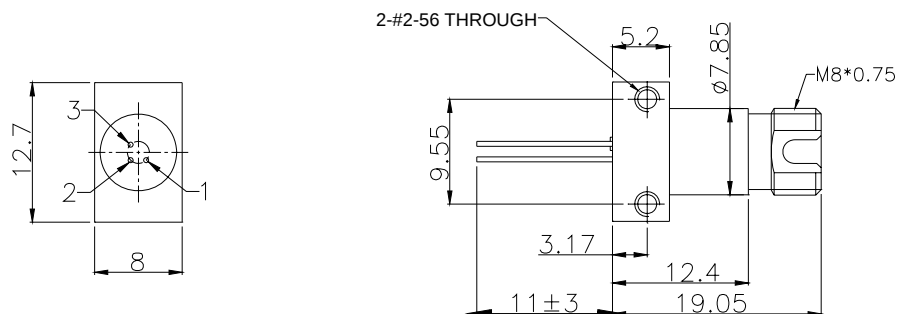
Package Style:"G":FC-SF



Package Style:"L":FC-BL



Package Style:"F":FC-L



Ordering Information

EDR-L-XXB-X-XFCX-XX

Family

EDR=ELED receptacle

Wavelength

30:1300nm
55:1550nm

Power

L/M/H/U

Connector

FC = FC

Device

L=Long

Tolerance

B=+/-40nm

Fiber

S=9/125um
M=50/125um

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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