



Features

- 1300nm or 1550nm Wavelength
- High Optical Power
- High Operating Current
- High Operating Temperature
- Low Modal Noise
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Condition	Rating	Unit
Reverse Voltage	V_{rELED}	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 coupled 62.5/125 μ m MM fiber)

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

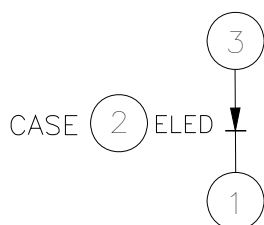
Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Wavelength	λ	1260	1300	1340	nm	CW
Spectral Width	$\Delta \lambda$	30	-	70	nm	CW (FWHM)
Operating Current	I_{op}	-	80	-	mA	CW
Output Power	P_o					
L		50	-	-	μ W	CW at I_{op} =80mA
M		100	-	-		
H		200	-	-		
Spectral Ripple		-	-	10	%	$\lambda \pm 10$ nm
Forward 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 coupled 62.5/125 μ m MM fiber)

Optical and Electrical Characteristics $\lambda=1550\text{nm}$ ($T_c=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Wavelength	λ	1510	1550	1590	nm	CW
Spectral Width	$\Delta \lambda$	45	-	100	nm	CW (FWHM)
Operating Current	I_{op}	-	80	100	mA	CW
Output Power	P_o	10 30 50	- - -	- - -	μW	CW at $I_{op}=80\text{mA}$
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 , $I_{op}=30\text{mA}$

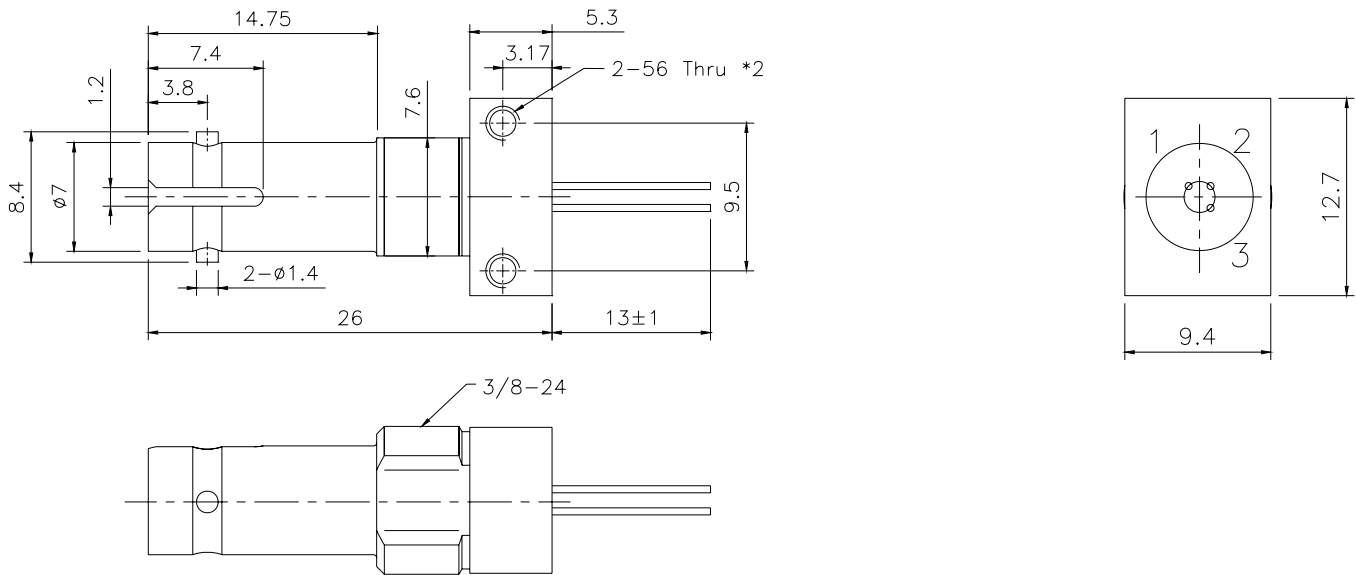
Pin Assignment



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

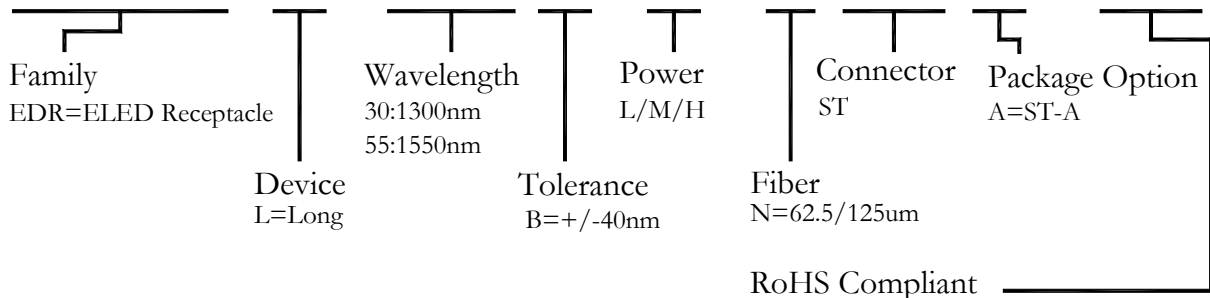
Packaging Dimension (Units in mm)

Receptacle Package Style : ST – A Type



Ordering Information

EDR-L-XXB-X-NSTA-XX



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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