C-15-001-E-XX



Features

- Uncooled laser diode with MQW structure
- 5mW CW operation at -40 to +85°C
- High temperature operation without active cooling
- Hermetically sealed active component
- Built-in InGaAs monitor photodiode
- Complies with Bellcore TA-NWT-000983
- TO-18 packaging with a flat window cap or a ball lens cap

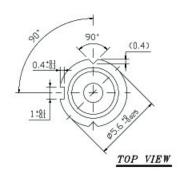
Absolute Maximum Rating (Tc=25°C)			
Parameter	Symbol	Value	Unit
Optical Output Power	Po	6 (CW)	mW
LD Reverse Voltage	$V_{_{ m RLD}}$	2	V
LD Forward Current	$I_{_{\mathrm{FLD}}}$	150	mA
PD Reverse Voltage	$V_{_{\mathrm{RPD}}}$	10	V
PD Forward Current	I_{FPD}	2.0	mA
Operating Temperature	T_{opr}	-40 to +85	°C
Storage Temperature	T _{stp}	-40 to +100	°C

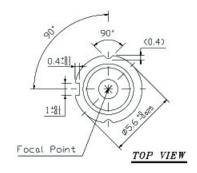
Optical and Electrical Characteristics(Tc=25°C)						
Parameter	Symbol	Min	Typical	Max	Unit	Test Condition
Slope Efficiency C-15-001-E-A C-15-001-E-B	SE	0.2 0.15	0.25 0.18	-	mW/mA	CW,P _o =5mW
Threshold Current	I_{th}	-	10	15	mA	CW,P _o =5mW
Optical Output Power	Po	5	-	-	mW	CW, kink free
Peak Wavelength	λ	1530	1550	1570	nm	Note
Spectral Width	Δλ	-	2	5	nm	CW,P _o =5mW
Forward Voltage	VF	-	1.2	1.5	V	CW,P _o =5mW
Beam Divergence	$egin{array}{c} heta_{/\!/} \ heta_{\perp} \end{array}$	- -	20 40	-	deg.	CW,P _o =5mW,FWHM
Rise/Fall Time	t _r /t _f	-	-	0.5	ns	$I_{\text{bias}} = I_{\text{th}}, 10-90 \%$
PD Monitor Current	Im	100	-	-	μΑ	$CW,P_o=5mW,V_{RPD}=2V$
PD Dark Current	I _{DARK}	-	-	0.1	μΑ	V _{RPD} =5V
PD Capacitance	Ct	-	6	15	pF	V _{RPD} =5V, f=1MHz

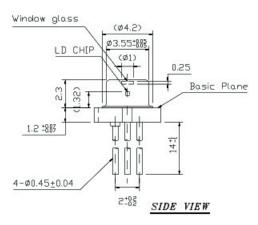
Note: Selected wavelength is available for WDM application

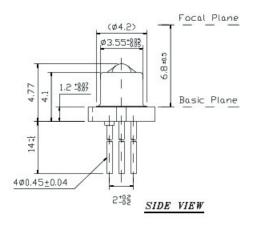
C-15-001-E-XX

Mechanical Drawing









C-15-001-E-AB C-15-001-E-AD C-15-001-E-B C-15-001-E-BB C-15-001-E-BD

LD Pin Assignment	
Model	PIN Assignment (Bottom View)
А Туре	LD ANDDE (CASE) PD ANDDE (CASE) PD CATHODE LD CATHODE PD CATHODE
В Туре	LD ANDDE LD CATHODE LD (CASE) 2 4 PD ANDDE PD CATHODE
D Type	CASE CASE

C-15-001-E-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 Notice

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