

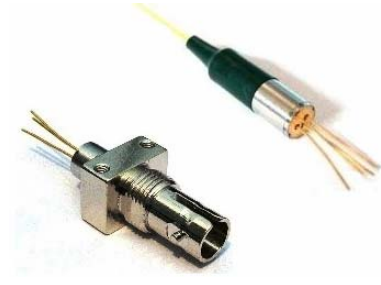
1310nm DFB LD Module

Features

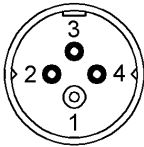
MQW 1310nm DFB LD
Built-in InGaAsP monitor PD
Wide temperature range operation
High reliable

Applications

Fiber optic communications



PIN assignment



	F type	S type
1	LD(+)/case	case
2	LD(-)	LD(-)
3	PD(-)	PD(+)
4	PD(+)	LD(+)/PD(-)

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 RADIATION
AVOID EXPOSURE TO BEAM
Class 3 B laser product



CAUTION
STATIC SENSITIVE DEVICE
OBSERVE PRECAUTIONS

Absolute maximum ratings

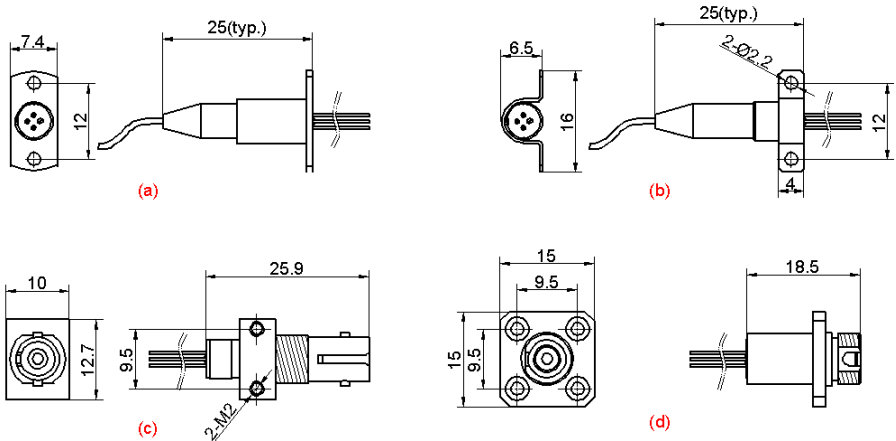
Parameter	Symbol	Min.	Max.	Unit	Test condition
Storage temperature	Tst	-40	+100	°C	-
Operating temperature	Top	-40	+85	°C	-
Reverse voltage	V _R		2	V	CW
Solder temperature/time			260/10	°C /S	-

Optical & electrical characteristics(T=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition
Center wavelength	λ_c	1290	1310	1330	nm	-
Threshold current	I _{th}	-	10	15	mA	
Side mode suppression ratio	SMSR	30	40	-	dB	
Spectral width	$\Delta\lambda$	-	1	2	nm	I _{th} +20mA,-20dB
Output power①	P	0.3	-	-	mW	CW,I _{th} +20mA
Operating voltage	V _{op}	-	1.1	1.5	V	CW,I _{th} +20mA
Rise/ Fall time	Tr/Tf	-	0.3	0.7	nS	10%~90%,I _b =I _{th}
Monitor current	I _m	0.1	0.7	-	mA	CW,I _{th} +20mA
Optical Isolation②	Iso	30	-	-	dB	Single stage
		50	-	-	dB	Dual stage

Note: ① PM fiber are available, ratio>20dB; ② temperature range:-20~70°C

Dimensions Diagram



Order information

SL2	X	X	X	X	X	X
	Isolator	wavelength	PIN out	Power	Rate	Package
	0,no	3,1310	F,F	M, >1mW	1,1.25G	1, (a)
	1,Single		S,S	H, >2mW	2,2.5G	2, (b)
	2,Double			U, >4mW		3, (c)
						4, (d)
						S,spec.

Copyright © 2008 by shinebon