

4.3G 1550nm DFB LD Module

Features

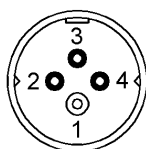
MQW 1550nm DFB LD
Built-in InGaAsP monitor PD
Excellent reliability
High Linearity

Applications

CATV
Wcdma Repeater
Fiber communication



PIN assignment



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

Absolute maximum ratings

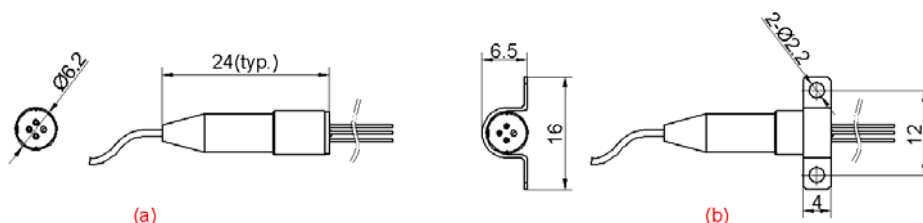
Parameter	Symbol	Min.	Max.	Unit	Test condition
Storage temperature	Tst	-40	+100	°C	-
Operating temperature	Top	-40	+85	°C	-
Reverse voltage	V _R		2	V	CW
Solder temperature/time			260/10	°C /S	-

Optical & electrical characteristics(T=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition
Center wavelength	λ_c	1530	1550	1570	nm	-
Threshold current	I _{th}	-	5	15	mA	
Side mode suppression ratio	SMSR	35	40	-	dB	
Spectral width	$\Delta\lambda$	-	0.1	1	nm	I _{th} +20mA,-20dB
Output power	P	2	-	-	mW	CW,I _{th} +20mA
Operating voltage	V _{op}	-	1.1	1.5	V	CW,I _{th} +20mA
Rise/ Fall time	T _r /T _f	-	-	0.1	nS	10%~90%,I _b =I _{th}
Relaxation Oscillation	f _r	-	4.3	-	GHz	Po=2mW
Frequency						
Monitor current	I _m	0.1	0.7	-	mA	CW,I _{th} +20mA
Optical Isolation①	I _{so}	30	-	-	dB	Single stage
Relative Intensity Noise	RIN	-	-145	-	dBc	CW
Second-order distortion	IMD2			-46	dBc	OMI=20%,2mW
Third-Order Intermodulation	IMD3	-	-65	-60	dBc	OMI=20%,2mW

Note: ①temperature 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	L,0.2~0.5mW	1,1.25G	1, (a)
	1,Single	5,1550	S,S	M, 0.5~1mW	2,2.5G	2, (b)
	2,Double	C,CWDM.		H, >2mW	4,>4G	S,spec.
				U, >4mW		

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LASER RADIATION
AVOID EXPOSURE TO BEAM
Class 3 B laser product

CAUTION
STATIC SENSITIVE DEVICE
OBSERVE PRECAUTIONS