

# 1310nm DFB Laser Diode Module (with Isolator)

## Features

- 1310nm DFB Laser
- High Optical Isolation
- High Output Power
- Coaxial Pigtail Package

## Electrical and optical characteristics (Tc=25 , unless otherwise noted.)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Threshold current	$I_{th}$	CW	-	10	15	mA
		CW, Tc=85	-	-	40	mA
Optical output power	$P_r$	CW, If=Iop,	0.8	1.0	1.5	mW
		CW, If=Iop,	1.5	2.0	2.5	
		CW, If=Iop,	3.5	4.0	4.5	
Operating current	Iop	CW, Pf=1.0/2.0/4.0mW	25		40	mA
Operating voltage	$V_f$	CW	-	1.1	1.8	V
Peak wavelength	$\lambda_p$	CW, If=Iop	1290	-	1330	nm
Spectral Width		CW, If=Iop,FWHM	-	-	1.0	nm
Isolation	Iso	Tc=25	-30	-	-	dB
Side-mode suppression ratio	SMSR	CW, If=Iop	30	-	-	dB
Tracking error	$E_r$	I <sub>m</sub> hold (@Pf=1mW/2mW/4mW(25 )), Tc=0 ~ +70 , APC	-1.5	-	1.5	dB
Rise and Fall time	$t_r, t_f$	I <sub>b</sub> =I <sub>th</sub> , 10 ~ 90%	-	0.5	-	ns.
Monitor current	$I_m$	CW , If=Iop , VRD=5V	100	-	1000	$\mu$ A
Capacitance (PD)	C <sub>t</sub>	V <sub>rd</sub> =5V, f=1MHz	-	10	20	pF
Dark current (PD)	I <sub>d</sub>	V <sub>rd</sub> =5V	-	0.01	0.1	$\mu$ A

## Ordering Information

