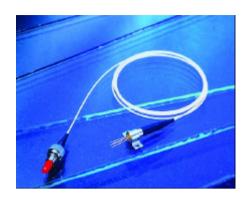
P/N: C-XXXXA-DFBA-P-SXXXI/XXX-X-XX



Analog CWDM Series Laser Diode Module (16 channel)



Features

- Laser diode with multi-quantum-well structure
- Un-cooled operation at 0~70
- Hermetically sealed active component
- Built-in InGaAs monitor photodiode
- Complies with Telcordia Technologies GR-468-CORE
- Single frequency operation with high SMSR
- Fiber pigtailed with FC/ST/SC/MU/LC connector
- Design for Analog fiber-optics application
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25 €)

Symbol	Rating	Unit
Pf	2(H)/2.6(2)	mW
V _{RLD}	2	V
V _{RPD}	10	V
I _{FPD}	2	mA
Topr	0 ~ 70	
Tstg	-40 ~ 85	
	Pf VRLD VRPD IFPD Topr	P _f 2(H)/2.6(2) V _{RLD} 2 V _{RPD} 10 I _{FPD} 2 Topr 0 ~ 70

(All optical data refer to a coupled 9/125 μ m SM fiber) Optical and Electrical Characteristics (Tc=25 \mathbb{C})

Parameter		Symbol	Min.	Тур.	Max.	Unit	Notes		
Thres hold Current		lth	-	-	20	mA	CW		
Operating Current		l _{op}	-	35	50	mA	CW		
Optical Output Power	H 2	Pf	1 2	- 2.5	2 -	mW	CW, lth+25mA, kink free CW, lth+30mA, kink free		
Operating Voltage		VF	-	1.2	1.5	V	CW, $P_f = P_f(Min)$		
Peak Wavelength			n-3	n	n+3	nm	Note 4		
Side mode Suppression		Sr	30	35	-	dB	CW, $P_f = P_f(Min)$, $0 \sim 70$		
Optical Isolation		OI	45 30	-	- -	dB	$T_c=25$ 0 < T_c < 70		
Rise / Fall Time		T _r /T _f	-	-	0.3	ns	lbias=lth, 10~90%		
Relative Intensity Noise		RIN	-	-150	-145	dB/Hz	CW		
Second Order Distortion		SSO	-	-	-40	dBc	Note1		
Third Order Distortion		STO	-	-	-50	dBc	Note1		
Monitor Current		I _m	100	-	1000	μA	CW, $P_f = P_f(Min)$, $V_{RPD} = 2V$		
Monitor Dark Current		I _{dark}	-	-	0.1	μA	V _{RPD} = 5V		



P/N: C-XXXXA-DFBA-P-SXXXI/XXX-X-XX

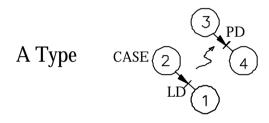
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Photodiode Capacitance	С	-	6	15	pF	$V_{RPD} = 5V, f = 1MHz$
Tracking Error	Pf /Pf	-1.5	-	1.5	dB	APC, 0 ~ 70

Note:

- 1. The laser is modulated with two-carrier tones (f1=13MHz, f2=19MHz) at OMI=15% per carrier tone.
- 2. Pin assignment can be customized.
- 3. Specifications subject to change without notice.
- 4. Selected wavelength is available for WDM application.
 - * Peak wavelength n=1270;1290;1310;1330;1350;1370;1390;1410;1430;1450;1470;1490 ;1510;1530;1550;1570;1590;1610

Pin Assignment



Pin 1: Laser Cathode

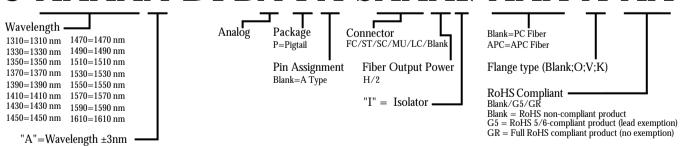
Pin 2: Laser Anode and Case Gnd

Pin 3: Monitor Diode Anode

Pin 4: Monitor Diode Cathode

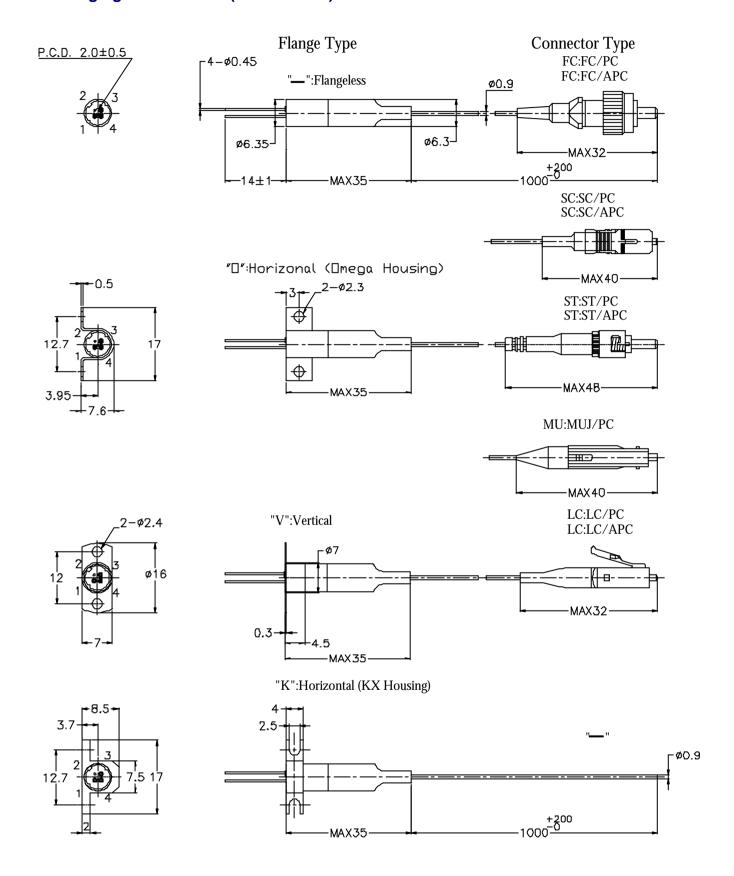
Ordering Information

C-XXXXA-DFBA-PX-SXXXI/XXX-X-XX



Analog CWDM Series Laser Diode Module (16 channel)

Packaging Dimensions (Units in mm)



P/N: C-XXXXA-DFBA-P-SXXXI/XXX-X-XX



Analog CWDM Series Laser Diode Module (16 channel)

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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