

**Features:**

- CWDM series transmitter with MQW DFB-LD
- Low noise, Low distortion, Low threshold current
- Integrated Optical Isolator
- Coaxial Pigtail Package
- Operating Temperature range: -20 to 80°C



**Applications:**

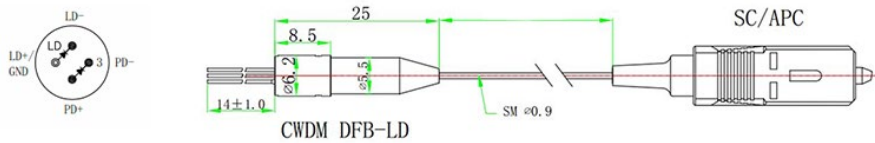
- CDMA/GSM transmission system
- WDM system
- CATV Return-Path
- Other analog transmission system

Absolute Maximum Ratings (Tc = 25°C)

Parameter	Symbol	Min	Max	Unit	Notes
Reverse Voltage (LD)	V <sub>RL</sub>	---	2	V	
Forward Current (LD)	I <sub>FL</sub>	---	120	mA	
Reverse Voltage (MPD)	V <sub>RMP</sub>	---	15	V	
Forward Current (MPD)	I <sub>FMP</sub>	---	2	mA	
Operating Temperature [1]	T <sub>c</sub>	-20	+80	°C	Case Temperature
Storage Temperature	T <sub>STG</sub>	-40	+85	°C	Ambient Temperature
Relative Humidity	RH	---	80	%	
Lead Soldering Temperature / Time	T <sub>s</sub>	---	260/10	°C/S	
Fiber Yield Strength		---	1	kgf	
Fiber Bend Radius		30	---	mm	

Notes: [1] Operating Temperature is available in 0~70°C or -20~80°C.

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Threshold Current	I <sub>th</sub>	5	-	10	mA	CW
Operating Current	I <sub>f</sub>	-	25	75	mA	CW, P <sub>f</sub> = 2.0mW
Operating Voltage	V <sub>f</sub>	-	1.2	1.6	V	
Optical Output Power	P <sub>f</sub>	2	-	-	mW	CW, I <sub>f</sub> = I <sub>th</sub> +20mA
Center Wavelength	λ <sub>c</sub>	CWDM: 1270~1610			nm	CW, P <sub>o</sub> = P <sub>f</sub>
Rise/Fall Time	T <sub>r</sub> /T <sub>f</sub>	-	-	0.4	nS	I <sub>f</sub> =I <sub>th</sub> , P <sub>o</sub> = P <sub>f</sub> (10-90) %
Monitor Current	I <sub>m</sub>	0.1	-	1	mA	CW, P <sub>o</sub> = P <sub>f</sub>
Capacitance	C	-	10	15	PF	VRD = 5V
Dark Current	I <sub>d</sub>	-	-	100	nA	VRD = 5V
Spectral Width (-20dB)	λ	-	3	5	nm	CW, I <sub>f</sub> = +20mA
Tracking Error	TE	-1.0	-	1.0	dB	
Optical Isolation	I <sub>so</sub>	30	-	-	dB	
Return Loss	RL	40	-	-	dB	
3 <sup>rd</sup> Order Inter-modulation Distortion	IMD3	-	-60	-55	dBc	
Relative Intensity Noise	RIN	-	-	-145	dB/Hz	
Side Mode Suppression Ratio	SMSR	40	-	-	dB	CW, P <sub>o</sub> = 5mW
Frequency Bandwidth	GHz					2.7



**Ordering Information:**

FCCLD	-	PSA2	-	D	XX	20A	-	2GR	900um Pigtail Length	-	Connector Type
Fiberdyne CWDM Coaxial Laser Diode					27 = 1270				01 = 1 Meter		000 = None
					29 = 1290				02 = 2 Meter		SCA = SC/APC
					●●●				Etc		SCU = SC/UPC
					61 = 1610						LCA = LC/APC
											LCU = LC/UPC
											STU = ST/UPC
											FCA = FC/APC
											FCU = FC/UPC
											YYY = Customer Specified