

Pump Lasers-FBG stabilized

CM0001C Series

980nm single mode cooled 14pin butterfly package

150~330mW operating output power

General Specification Ver.4

Maximum Operating Power Pop [mW]	Maximum Operating Current Iop [mA]	Maximum Kink-free Power Pk [mW]	Maximum Kink-free Current Ik [mA]
330	600	363	650

Electro-Optical Characteristics

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Threshold current		Ith		45	50	mA
Forward voltage	at Iop	Vop		1.7	1.8	V
Peak wavelength	as specified +/-1nm	λ_{peak}		975 / 977		nm
Spectral width (95%power)	at Pop, with FBG	ΔP_{95}			2	nm
Optical power stability	at Iop, t=60sec.	Pop/t			0.5	%
Spectral shift with temp.	FBG temp.	λ/T			0.02	nm/°C
Side mode suppression	at Pop, with FBG		-20			dB
Monitor responsivity		R	1	3	20	uA/mW
Monitor dark current				5	40	nA
TEC current	chip 25°C, Case 70°C	ITEC			0.9	A
TEC voltage	chip 25°C, Case 70°C	VTEC			2.1	V
Thermistor resistance	T=25°C	Rth	9.5	10	10.5	Kohm
Thermistor constant		B	3850	3892	3900	K
Fiber type	HI1060, single mode					

Absolute Maximum Ratings

Parameter	Symbol	Min	Typ	Max	Unit
Storage temp.	Tmax	-40		85	°C
Operating case temp.	Top,case	-20		70	°C
Operating LD temp.	Top,LD	20		70	°C
Soldering temp.(max.10sec.)				260	°C
LD forward voltage	IF, max			600	mA
LD reverse voltage	VR, max			0.3	V
Monitor forward voltage	IF, PD			5	mA
Monitor reverse voltage	VR,PD			20	V
TEC current	ITEC			1.8	A
TEC voltage	VTEC			3.2	V
ESD damage				500	V
Fiber pigtail bend radius		25			mm

Pump Lasers-FBG stabilized

CM0001C series

980nm single mode cooled 14pin butterfly package

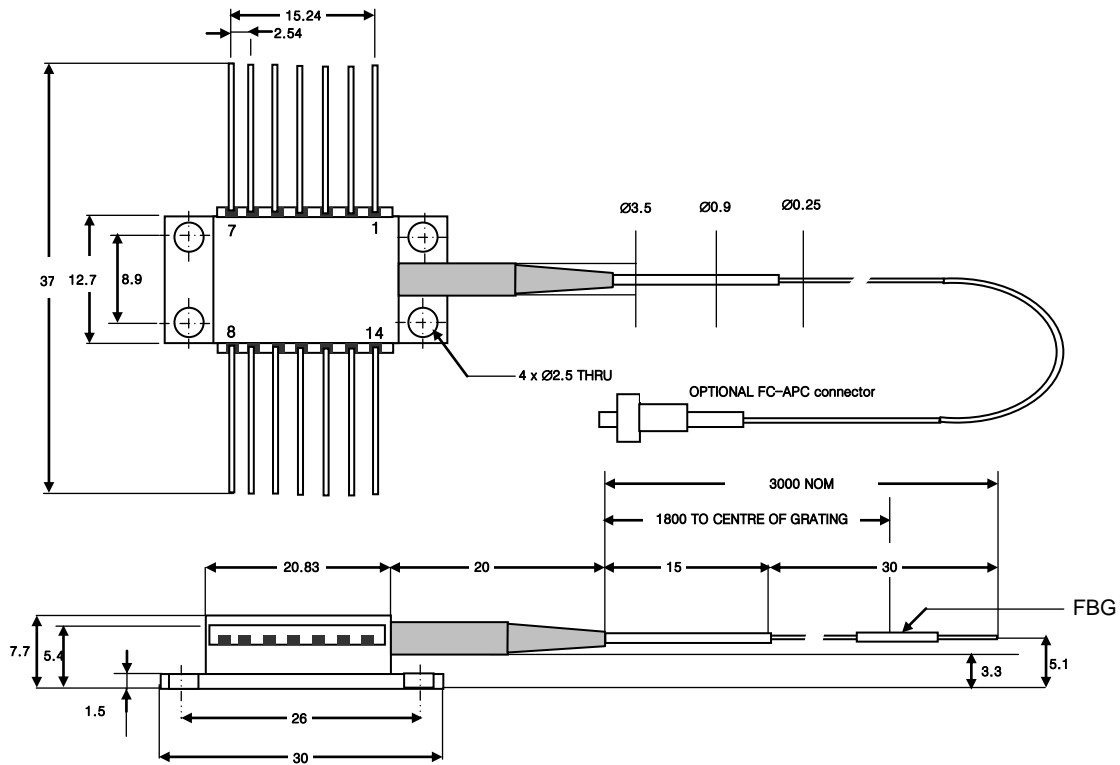
150~330mW operating output power

General Specification Ver.4

Package Dimensions

Note: Specifications in mm unless otherwise noted

The module fiber pigtail consists of 250um buffered Coming PureMode™HI-1060 single mode fiber



Pin Connection

Pin No.	Function	Pin No.	Function
1	TEC (+)	14	TEC (-)
2	Thermistor	13	Case ground
3	PD Anode (-)	12	NC
4	PD Cathode (+)	11	LD Cathode (-)
5	Thermistor	10	LD Anode (+)
6	NC	9	NC
7	NC	8	NC



All statements, technical information and recommendations related the products herein are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its application. Coset Inc. reserves the right to change at any time without notice the design, specifications, function, fit or form of its products described herein, including withdrawal at any time of a product offered for sale herein.