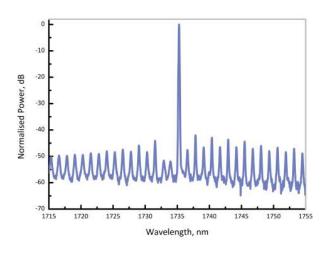


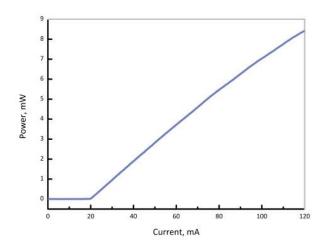




SUPERIOR PERFORMANCE

Eblana Photonics EP1568-DM-B laser diode is a cost effective, highly coherent laser source, designed using Eblana's discrete-mode (DM) technology. Packaged in a 14-pin butterfly, excellent SMSR and linewidth performance make it suitable for a wide variety of optical sensing applications.





Typical optical spectrum of 1735DM laser at 80mA

Representative LIV from 1742nm laser

ELECTRO-OPTICAL CHARACTERISTICS* ($T_{SUB} = 25^{\circ} C$)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Available Wavelength Range	λ	-	1735	-	nm
Wavelength Tolerance	$\lambda_{ ext{spec}}$	λ -1	λ	λ +1	nm
Side Mode Supression Ratio	SMSR	30	40	-	dB
Threshold Current	I _{th}	-	20	25	mA
Output Power in fiber	P _f	3	5	-	mW
Optical linewidth	Δf	-	-	2	MHz
Temperature Tuning Coefficient	T_λ	0.07	0.1	-	nm/°C
Current Tuning Coefficient	I_{λ}	10	15	-	pm/mA
Slope Efficiency	SE	0.05	0.08	-	mW/mA
Thermistor Resistance	R _T	9.5	10	10.5	kΩ
Thermistor Temp. Coefficient	С	-	-4.4	-	%/°C

*CW bias unless otherwise stated

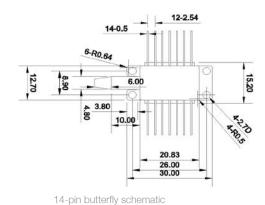
ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN	MAX	UNIT
l _f	-	140	mA
V_f	-	2	V
I _{TEC}	-	1.2	А
V_{rev}	-	2	V
T_{Case}	-20	65	°C
T_Sub	0	50	°C
T _{storage}	-40	85	°C
	I _f V _f I _{TEC} V _{rev} T _{Case} T _{Sub}	If - Vf - I _{TEC} - V _{rev} - T _{Case} -20 T _{sub} 0	If - 140 Vf - 2 ITEC - 1.2 Vrev - 2 TCase -20 65 Tsub 0 50

*For T_{sub} < 25°C, Max Case Temperature should be derated to $T_{Case,Max}$ = T_{sub} + 40°C

PACKAGING

The EP1735-DM-B product series is offered in a 14-pin Butterfly package - Inquire for other packaging options. The standard package pinout is shown below, variations may be requested. mPD not included as standard.



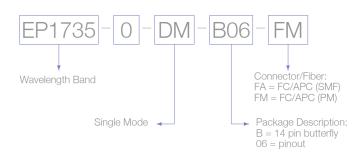
TEC NC NC Liokehm
Thermistor

Case Case Ground Ground NC NC

8 9 10 11 12 13 14

Standard "Pinout 06" option

www.rpmclasers.com





Laser Safety

This is a Class 3R Laser Product as defined by International Standard IEC 60825-1, Edition 3. Invisible Laser radiation is emitted from the end of the fiber or connector. Avoid direct eye exposure to the beam. Laser safety labels are not attached to the module due to space limitations but instead are affixed to the outside of the shipping carton.