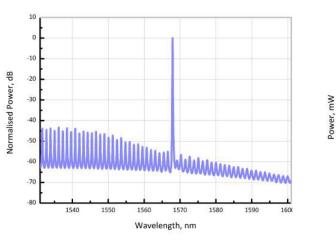


SUPERIOR PERFORMANCE

RPMC Lasers REP1568-DM-B laser diode, available in the 1560 - 1573nm range, is a cost effective, highly coherent laser source, designed using RPMC's discretemode (DM) technology. Excellent SMSR and linewidth performance make it suitable for a wide variety of applications.



Typical optical spectrum at 25° C

Output power as a function of bias current

ELECTRO-OPTICAL CHARACTERISTICS* (T_{SUB} = 25° C)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Centre Wavelength Range	λ	1560	1568	1573	nm
Wavelength specification	$\lambda_{ m spec}$	λ -1	λ	λ +1	nm
Side Mode Supression Ratio	SMSR	30	40	-	dB
Threshold Current	l _{th}	-	30	35	mA
Output Power in fiber	P _f	4	6	-	mW
Optical linewidth	Δf	-	-	2	MHz
Temperature Tuning Coefficient	T_{λ}	0.07	0.1	0.14	nm/°C
Current Tuning Coefficient	$ _{\lambda}$	0.008	0.014	0.020	nm/mA
Slope Efficiency	SE	0.05	0.1	-	mW/mA
Thermistor Resistance	R _T	9.5	10	10.5	kΩ
Thermistor Temp. Coefficient	С	-	-4.4	-	%/°C

*CW bias unless otherwise stated

RPMC Lasers, Inc. 8495 Veterans Memorial Pkwy | O'Fallon, MO 63366 www.rpmclasers.com | 636.272.7227

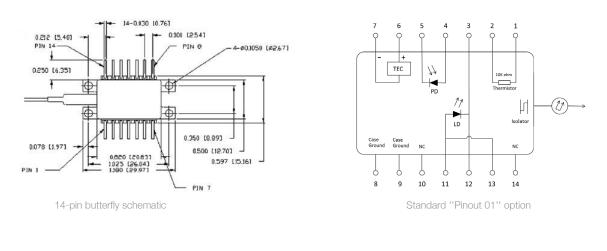
ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Forward Current	l _f	-	70	120	mA
Forward Voltage	V _f	-	1.3	1.6	V
TEC Current	I _{TEC}	-	-	1.2	А
Reverse Voltage LD	Vr	-	-	2.0	V
Reverse Voltage PD	V _{rev}	-	-	20	V
Case Temperature*	T _{Case}	-20	-	65	°C
Chip Submount Temperature	T _{Sub}	0	-	50	°C
Storage Temperature	T _{storage}	-40	-	85	°C

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

PACKAGING

The REP1568-DM-B product series is offered in a 14-pin But-terfly package - Inquire for other packaging options. The standard package pinout is shown below, variations may be requested.





Laser Safety

This is a Class 3R Laser Product as defined by International Standard IEC 60825-1, Edition 2. 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.

RPMC Lasers, Inc. 8495 Veterans Memorial Pkwy | O'Fallon, MO 63366 www.rpmclasers.com | 636.272.7227