

TBD-1G12-050

1330 nm DFB LD

Features and Applications

- 1330 nm emission wavelength
- Capable to run 10.3125 Gbps and above data rate

ELECTRO-OPTICAL CHARACTERISTICS:

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Operating Wavelength	λ_p	1310	1330	1350	nm	CW, I _{op} =30(mA)
Threshold Current	I _{th}		7	15	mA	CW, T _c = 25°C
Slope Efficiency	η	0.35	0.42		mW /mA	Power = 0.5–5 mW
Series Resistance	R _s		6.9	15	Ohm	Power = 3–7 mW
Side Mode Suppression Ratio	SMSR	35			dB	CW, I _{op} =30(mA)

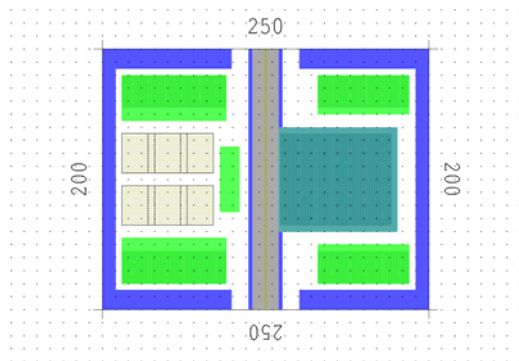
Notes: All parameters are measured at 25°C room temperature, CW operation.

ABSOLUTE MAXIMUM RATINGS:

PARAMETERS	MIN	MAX	UNIT	CONDITION
Storage Temperature	-40	85	°C	
Operating Temperature	-40	85	°C	
Output power		10	mW	
Reverse Voltage		2	V	

OUTLINE DIAGRAM:

- chip size is 250 x 200 μm with 100 $\pm$ 15 μm thickness.



WARNING:

The DFB LD is a class 3B laser in the safety standard IEC60825-1:2014 and should be treated to avoid exposure to beam.

