

DFB Laser Diode 2330nm 3mW

FNPL-3S-2330-DFB



FNPL-3S-2330-DFB is a CW DFB semiconductor laser diode. It is delivered in standard SOT-148 and TO-56 packages with optional monitor diode to stabilize power output and TO-5 and TO-8 packages with integrated TEC, thermistor and monitor diode. Custom mounts are available upon request.

Key Features

Excellent reliability
Variety of packaging options

Applications

High performance gas sensing
Gas Sensing
Sensing of liquids
Free space communications
Spectroscopy

Optical and electrical characteristics: (T = 25 °C)

Operating parameters	Symbol	Min	Typ	Max	Unit
Optical output power	P _{out}	-	3	-	mW
Lasing wavelength	λ	2329	2330	2331	nm
Threshold current	I _{th}	30	45	55	mA
Forward current	I _f	55	70	100	mA
Operating Voltage		-		2.5	V
Beam divergence parallel	Θ	25	30	35	deg.
Beam divergence perpendicular	Θ⊥	45	50	60	deg.
Side mode suppression		-	35	-	dB
Spectral width (FWHM)	Δλ	-	-	3	MHz
Emitting area	WxH	-	2*1.5	-	μm
Slope efficiency	dP _o /dI _{op}	0.08	0.1	0.12	mW/mA
Current tuning rate	C _I	0.01	0.02	0.03	nm/mA
Temperature tuning rate	C _T	0.18	0.2	0.22	nm/K
Operating temperature	T _c	-20		+50	°C
Storage temperature	T _s	-20		+85	°C

TYPICAL PERFORMANCE

Room Temperature CW Spectrum at 2330nm

