



DFB Laser Diode 3370nm 1mW

FNPL-1S-3370-DFB



FNPL-1S-3370-DFB is a CW DFB semiconductor laser diode. It is delivered in standard TO-5 packages with integrated TEC, thermistor and monitor diode. Custom mounts are available upon request.

Key Features

Excellent reliability
 Variety of packaging options
 Narrow Linewidth <3MHz

Applications

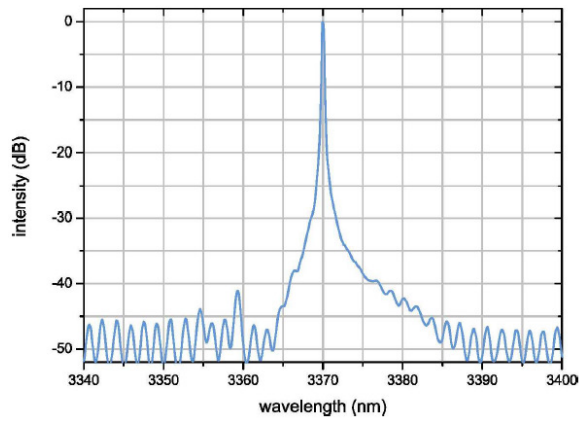
High performance gas sensing
 Gas Sensing
 Sensing of liquids
 Spectroscopy

Optical and electrical characteristics: (T = 10°C)

Operating parameters	Symbol	Min	Typ	Max	Unit
Optical output power	P_{out}	-	>1	-	mW
Lasing wavelength	λ	3369	3370	3371	nm
Threshold current	I_{th}	70	90	110	mA
Forward current	I_f	-	140		mA
Beam divergence parallel	$\Theta_{ }$	18	24	30	deg.
Beam divergence perpendicular	Θ_{\perp}	50	60	70	deg.
Side mode suppression		-	>32	-	dB
Temperature Tuning Coefficient		0.24	0.28	0.32	nm/K
Current Tuning Coefficient		0.02	0.02	0.03	nm/mA
Emitting area	WxH	4x1	5x1.5	6x2	μm
Slope efficiency	dP_o/dI_{op}	0.02	0.04	0.05	mW/mA
Operating temperature	T_C	-10	+10	+20	°C
Storage temperature	T_S	-20		+80	°C

TYPICAL PERFORMANCE

Near Room Temperature CW Spectrum at 3370nm



Mode Hop Free Tuning by Current Variation at Different Temperatures

