

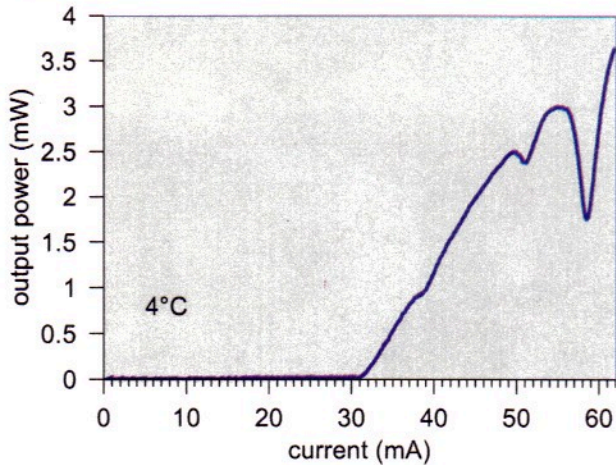
S/N: 1574/19-17

Nanosystems and
Technologies
GmbH

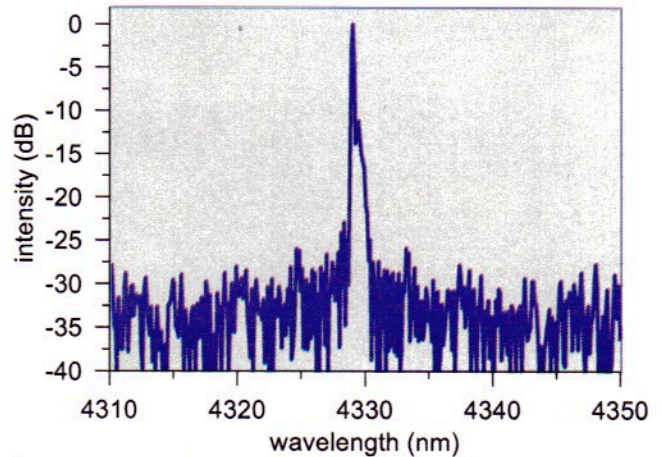
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Datasheet for 4329nm DFB Laser

Current-Output-Power



Spectrum

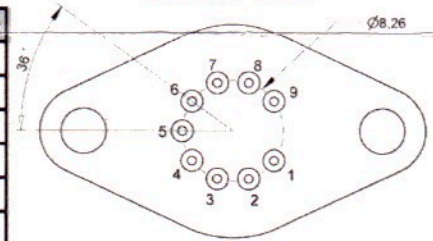


The laser is mounted on: TO66 with TEC and cap. Electrical connection as shown:

Pin	Function
1	Peltier (+)
2	Thermistor
3	Thermistor
4	N/C
5	N/C
6	N/C
7	LD (+)
8	LD (-)
9	Peltier (-)

Parameter	Symbol	Value	Unit
Max. temperature diff.	ΔT_{max}	67	K
Max. current	I_{max}	1.4	A
Max. voltage	U_{max}	3.8	V
Max. power	Q_{max}	3.0	W
Thermistor R_0 @ 25°C	R_0	10000	Ω
Thermistor b	b	3930	

Bottom View



Caution: Before operating the cooler: TO66 has to be connected to a heat sink. **Characteristics**

Parameter	Symbol	Unit	min	typical	max
Operation voltage	U	V			3.9
Max. Current	I_{max}	mA			62
Threshold current	I_{th}	mA		31	
Slope efficiency	e	mW/mA		0.13	

Operation conditions

Parameter	Symbol	Unit	min	typical	max
Operation temperature	T	°C	0	4	8
Wavelength	λ	nm		4329.0	
Operation current	I	mA		51	62
Output power	P_{opt}	mW		2.6	

Device protected by US patent no. 6,671,306; 6,846,689



Caution:

High voltage, high temperature, and mechanical forces may cause irreversible damage to the laser. When handling the laser diode proper ESD (electrostatic discharge) precautions are recommended to avoid performance degradation or loss of functionality.

