INNOVATIVE OPTICS LIMITED

TO220 2Pins high power laser diode

Characteristics:

- High reliability
- Au-Sn hard solder
- High brightness
- High stability

Applications:

- Solid-state laser pumping
- Material processing
- Medical/Life and health sciences
- Illumination

Characteristics:

Characteristics (@25°)	Symbol							Unit
Output Power	Po	1.0	2.0	3.0	4.0	5.0	8.0	W
Operating Current	Iop	1.2	2.2	3.0	4.3	5.5	8.5	A
Threshold Current	Ith	0.2	0.35	0.45	0.9	1.0	1.2	A
Wavelength	λc	808 / 915 / 940 / 976						nm
Wavelength Tolerance		+/-7	+/-7	+/-7	+/-7	+/-7	+/-7	nm
Emitter size	W	150	150	100 or 150	200	200	200	um
Spectral Width (FWHM)	Δλ	<3	<3	<3	<3	<3	<3	nm
Wavelength Temperature Coeff.	Δλ/ΔT	0.3	0.3	0.3	0.3	0.3	0.3	nm/° C
Slope Efficiency	η	>1.1	>1.1	>1.1	>1.1	>1.1	>1.1	W/A
Polarization	TM/TE	TE	TE	TE	TE	TE	TE	
Power Conversion Efficiency	η_{TOT}	50	50	50	50	50	50	%
Parallel beam divergence	θ //	8	8	8	8	8	8	Deg
Parpendicular beam divergence	θ⊥	10	10	10	9	10	10	Deg
Thermal resistance	Rth	10	10	10	9	10	10	° C/W
Electrical								
Maximum Operating Voltage	Vop	≤2.0						V
Maximum Reverse Voltage	Vre	≤2.5						V
Mechanical								
Housing Dimension		See Drawing						
Lead Soldering Temp		260° C for <5 seconds						
Environmental								
Operating Temperature Range	Top	15 to 30						° C
Operating Humidity	Hop	Non-condensing						RH
Storage Temperature Range	T_{STG}	-20 to 80						° C

Customized wavelength and power are also available.Please contact IOL for specific requirements.

Innovative Optics Limited
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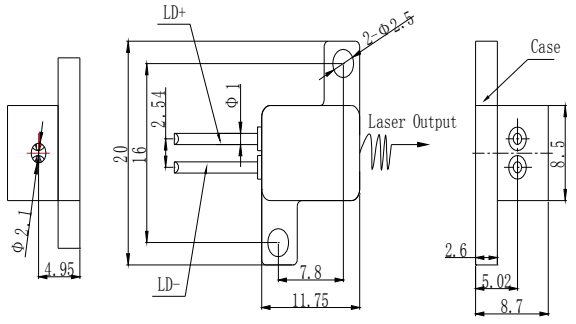
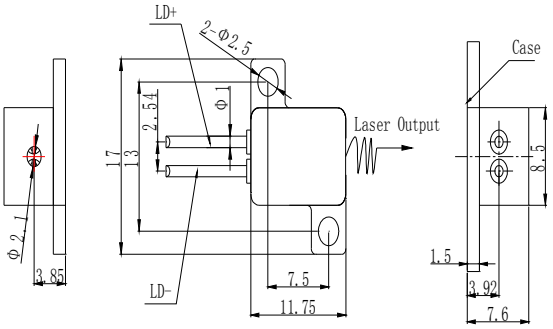
Mechanical:

package A



package B



Customized dimensions are also available.Please contact IOL for specific requirements.

Order information:

IO X1-X2X3X4-X5X6X7-X8 X9 X10

Fast Axis Collimation:	0=NA 1=Special cylindrical lens (AR coating) 2=Normal cylindrical lens 3=Normal cylindrical lens(Facula ratio=4:3)		
Emitter width:	1=100μm 5= 50μm	2=150μm D=2*150 μm	3=200μm
Cavity length:	1=1mm 4=4mm	2=2mm 5=0.5mm	3=3mm
Power output :	010=1.0w 025=2.5w	020=2.0w 050=5.0w	
Wavelength:	808= 808nm 064=1064nm	975= 975nm 550=1550nm	
Package Type:	B = BTF-4PIN Q = Q-mount 1 = ct-mount 3 = TO3 fiber	c = c-mount T = TO220 window 2 = TO220 fiber 4 = TO3 window	
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