

## 638nm TOSA Laser Diodes 60mW

### Features

- TOSA package types
- High output power( $\geq 60\text{mW}$ )
- High-performance, 638nm Chip

### Applications

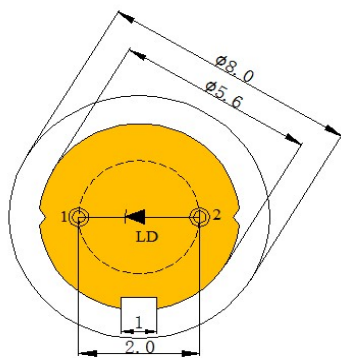
- Telecommunication transceivers
- Datacom transceivers
- Fiberoptic sensors

The fiber coupled TO56 laser diodes at the nominal center wavelength of 638nm are Multiple Quantum Well (MQW) structured chip laser modules. These laser diodes are built in a TO56 package. The Laser Diodes wavelength of  $638\pm 5\text{nm}$ , Output power  $\geq 60\text{mW}$  Pigtail Type: 630-HP(Nufer) fiber with 900um loose tube, 1m, specified connector. The products are Telcordia GR-468 qualified, ar compliance with RoHS Directives.

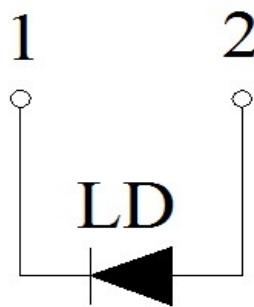
### Specifications

Parameters	Unit	Values	Symbol	Test Conditions
Center Wavelength	nm	$638\pm 5$	$\lambda_c$	$P_o=60\text{mW(CW)}$
Peak Optical Output Power	mW	$\geq 60$	$P_o$	
Spectral Width(RMS)	nm	2(Typ.)	$\Delta\lambda$	
Threshold Current	mA	$\leq 70$	$I_{TH}$	
Operating Current	mA	$\leq 200$	$I_{op}$	$P_o=60\text{mW(CW)}$
Laser Forward Voltage	V	$\leq 3.5$	$V_F$	$P_o=60\text{mW(CW)}$
Fiber Type		630-HP(Nufer)		
Laser Forward Current	mA	$\leq 220$	$I_F$	CW
Laser Reverse Voltage	V	$\leq 2$	$V_R$	
Operating Temperature	$^{\circ}\text{C}$	-20 ~ +65	$T_{op}$	
Storage Temperature	$^{\circ}\text{C}$	-40 ~ +85	$T_s$	

### Schematic Configuration and PIN Definition:

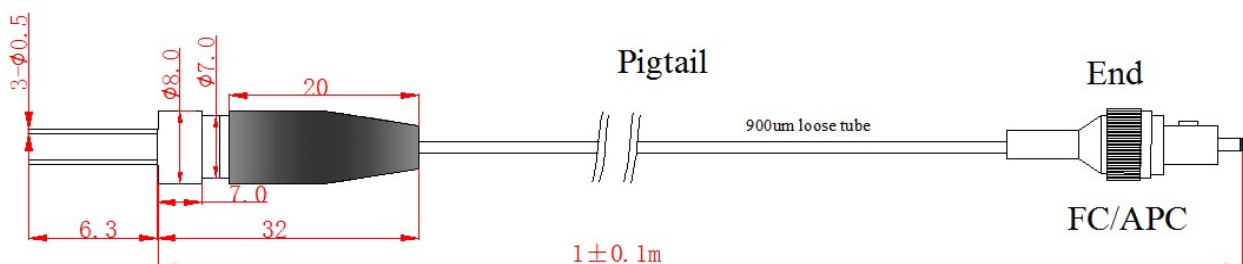


Bottom View

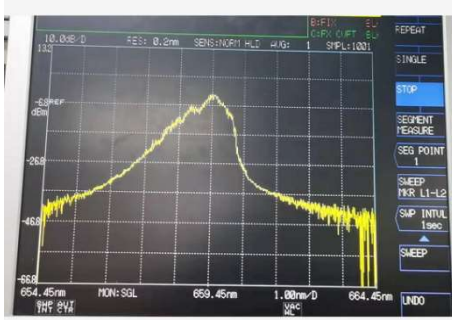


Pin No.	Type B
1	LD Cathode
2	LD Anode

### Package Dimensions (mm)



**Spectrum Chart(For example:660nm)**



**Ordering Information**

TOSALD- ①①①-②②-③③③-④④④④④-⑤-⑥⑥

①	Wavelength	638;
②	Optical Power	60=60mW; XX=Customization;
③	Pigtail Type	250=250μm Bare Fiber; 900=900μm Loose Tube;
④	Fiber Type	630HP=630-HP;
⑤	Fiber Length	1=1m;
⑥	Connector	NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others;