

760nm DFB TO-CAN With Connector datasheet

P/N : WD76-003-W

Description

The laser diode module is a cost effective, highly coherent laser source. The chips are mounted in TO39 can. Wavelength tuning can be achieved via laser current and temperature. Tuning packaged with TEC and PD built in.



Applications

O₂ Monitoring

Specification : Tsub = 25°C, CW bias unless stated otherwise

ELECTRO-OPTICAL CHARACTERISTICS					
PARAMETER	Symbol	MIN	TYP	MAX	Unit
Centre Wavelength	λ	759	760	761	nm
Side Mode Suppression Ratio	SMSR	30	35	--	dB
Threshold Current	I _{th}	10	15	30	mA
Operating Current	I _{op}	--	30	50	mA
Output Power	P _o	--	2.5	--	mW
Temperature Tuning Coefficient	C _t	0.04	0.05	0.07	nm/K
Forward Voltage	V _f	--	--	2	V
B constant of R _{th}	B	3800	3930	4000	K
Thermistor Resistance	R _t	9.7	10	10.3	k Ω
Fiber Specification	/	HP780			
Fiber Length	L	500	--	1200	mm
Connector		FC/APC			

TEC Characteristics@25°C

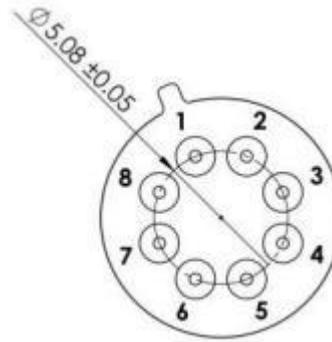
PARAMETER	Symbol	MIN	TYP	MAX	Unit
TEC Current	I _{max}	--	--	0.8	A
TEC Voltage	V _{max}	--	--	1.4	V
TEC Power(@ $\Delta T=0K$)	Q _{max}	--	--	0.68	W
TEC Capacity(@Q=0W)	ΔT_{max}	--	--	67	K

Environment Specification

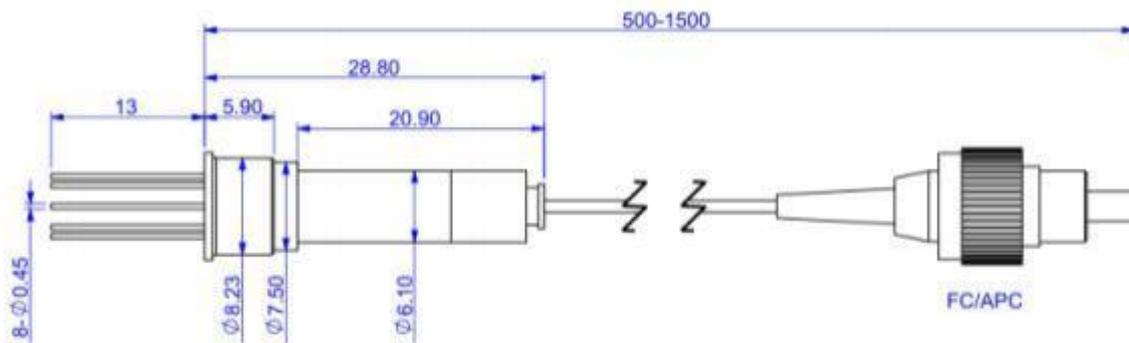
Item	Min	Typ	Max	Unit
Operating Temperature	-10	--	50	°C
Storage Temperature	-40	--	80	°C

Pin Description

Pin	Description
1	LD Anode(+)
2	LD Cathode (-)
3	TEC (-)
4	TEC (+)
5	THERMISTOR
6	THERMISTOR
7	N/C
8	N/C



Mechanical Dimension :



Unit:mm