

## 10Gbps DFB Laser TO-Can

P/N: WT3-P273-XP7

### Description

Wavesplitter TO-56 WT3-P273-XP7 is designed for high speed, high performance optical communication applications as well as 10G- XGS PON and 5G networking applications.

### Features

- Wavelengths: 1270
- TO-56 package (4 pins)
- WT3-P273-XP7 7.5nm focal distance with ASP lens cap

### Product Specifications

#### Absolute Maximum Ratings

Parameter	Symbol	Conditions	Min.	Max.	Unit
Storage Temperature	T <sub>Storage</sub>	-	-40	+85	°C
Operating Temperature	T <sub>op</sub>	-			°C
WT3-P273-0P7			-5	+75	
WT3-P273-1P7			-5	+85	
WT3-P273-2P7			-20	+85	
WT3-P273-4P7			-40	+85	
Solder Reflow Temperature	STEM	10sec Max.	-	260	°C
Laser Reverse Voltage	V <sub>r</sub>	-	-	2	V
Laser Forward Current	I <sub>f</sub>	-	-	100	mA
Photodiode Forward Current	I <sub>pd</sub>	-	-	10	mA
Photodiode Reverse Voltage	V <sub>r</sub>			2	V

#### Electrical and Optical Characteristics (T=25°C, unless note)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Threshold Current	I <sub>th</sub>	CW, T <sub>c</sub> =25°C	-	5.5	12	mA
		CW, T <sub>c</sub> =85°C	-	15	25	mA
Forward Voltage	V <sub>f</sub>	CW, T <sub>c</sub> = 25°C I <sub>op</sub> =45mA	-	-	2	V
Slope Efficiency	SE	CW, T <sub>c</sub> = 25°C I <sub>th</sub> +5mA to I <sub>th</sub> +35mA	0.40	0.45	0.55	mW/mA
Side Mode Suppression Ratio	SMSR	CW, I <sub>op</sub> = I <sub>th</sub> +35mA, T <sub>c</sub> = 0°C ~ 70°C	35	-	-	dB
Rise/Fall Time	t <sub>r</sub> /t <sub>f</sub>	I <sub>op</sub> = I <sub>th</sub> +35mA, 20% ~ 80%	-	20	-	ps
Peak Wavelength	λ	WT3-PXXX-XXX	-10	λ	+10	nm
		WT3-BXXX-XXX	-10	λ	+10	
PD Dark Current	I <sub>d</sub>	V <sub>r</sub> = 5V	-	-	100	nA
PD Monitor Current	I <sub>m</sub>	CW, I <sub>th</sub> +35mA	100	-	1000	uA
PD Capacitance	C <sub>pd</sub>	V <sub>r</sub> = 5V@1MHz	-	5	10	pF

Note: T<sub>c</sub> = Module Case temperature

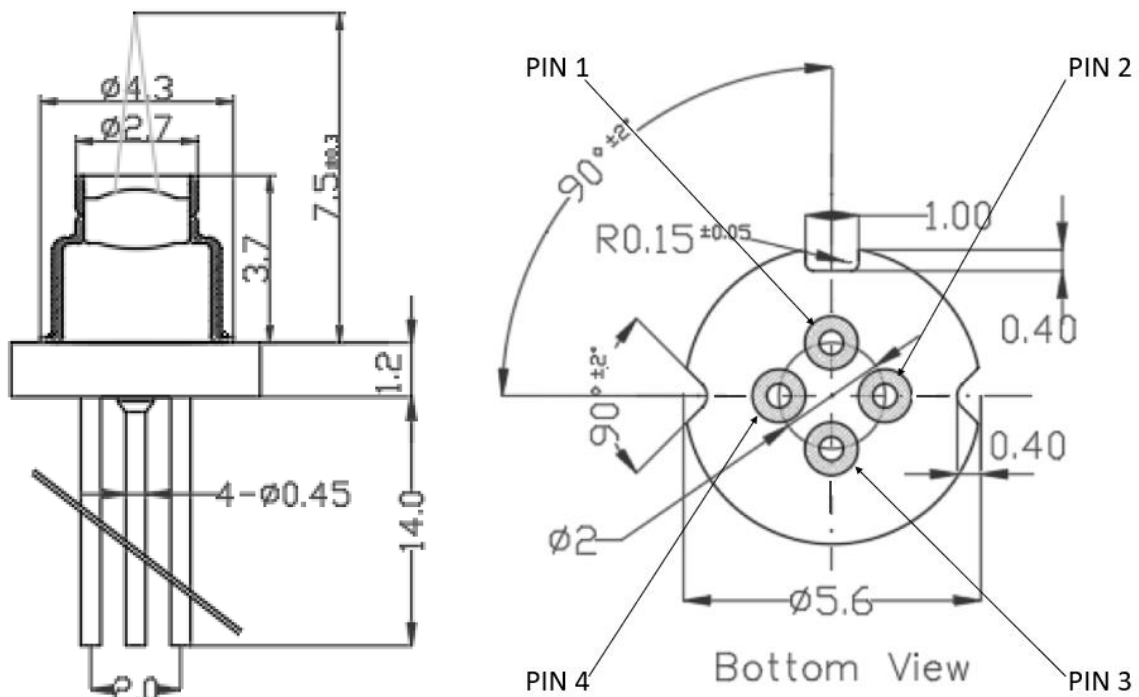
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## Outline Dimensions

Unit:mm

### WT3-XXXX-XP7



### Pin Assignment

PIN No.	Description
PIN1	PD+ /CASE
PIN2	Laser Diode Cathode (LD-)
PIN3	Photodiode Cathode (PD-)
PIN4	Laser Diode Anode (LD+)

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### ORDER INFORMATION

NO	Part number	Description	Note
1	WT3-P273-0P7	10G TO56 ASP 7.5mm, DFB 1270nm , -5~75C	
2	WT3-P273-1P7	10G TO56 ASP 7.5mm, DFB 1270nm , -5~85C	
3	WT3-P273-2P7	10G TO56 ASP 7.5mm, DFB 1270nm , -20~85C	
4	WT3-P273-4P7	10G TO56 ASP 7.5mm, DFB 1270nm , -40~85C	



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