

10Gbps DFB Laser TO-Can

P/N: WT3-P273-XS4

Description

Wavesplitter TO-56 WT3-P273-XS4 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-XS4 10.18 nm focal distance with ASP lens cap

Product Specifications

Absolute Maximum Ratings

Parameter	Symbol	Conditions	Min.	Max.	Unit
Storage Temperature	T _{Storage}	-	-40	+85	°C
Operating Temperature	T _{op}	-			°C
WT3-P273-0X4			-5	+75	
WT3-P273-1X4			-5	+85	
WT3-P273-2X4			-20	+85	
WT3-P273-4X4			-40	+85	
Solder Reflow Temperature	STEM	10sec Max.	-	260	°C
Laser Reverse Voltage	V _r	-	-	2	V
Laser Forward Current	I _f	-	-	100	mA
Photodiode Forward Current	I _{pd}	-	-	10	mA
Photodiode Reverse Voltage	V _r			2	V

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Threshold Current	I _{th}	CW, T _c =25°C	-	5.5	12	mA
		CW, T _c =85°C	-	15	25	mA
Forward Voltage	V _f	CW, T _c = 25°C I _{op} =45mA	-	-	2	V
Slope Efficiency	SE	CW, T _c = 25°C I _{th} +20mA	0.4	0.5	0.55	mW/mA
Beam angle	---	---	-1.5	0	1.5	°
Side Mode Suppression Ratio	SMSR	CW, I _{op} = I _{th} +35mA, T _c = 0°C ~ 70°C	35	-	-	dB
Rise/Fall Time	t _r /t _f	I _{op} = I _{th} +35mA, 20% ~ 80%	-	20	-	ps
Peak Wavelength	WT3-PXXX-XXX	CW, I _{op} = I _{th} +35mA	-10	λ	+10	nm
	WT3-BXXX-XXX		-10	λ	+10	
PD Dark Current	I _d	V _r = 5V	-	-	100	nA
PD Monitor Current	I _m	CW, I _{th} +20mA	100	-	1000	uA
PD Capacitance	C _{pd}	V _r = 5V@1MHz	-	5	10	pF

Note: T_c = Module Case temperature

Specifications are subject to change without notice.

Version 2.0

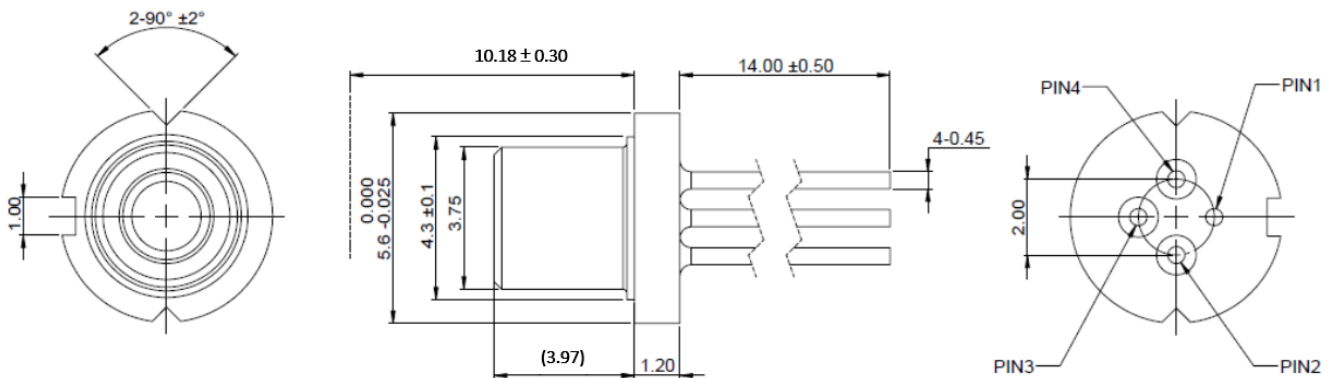
10Gbps DFB Laser TO-Can

P/N: WT3-P273-XS4

Outline Dimensions

Unit:mm

WT3-XXXX-XS4



10Gbps DFB Laser TO-Can

P/N: WT3-P273-XS4

Pin Assignment

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

ORDER INFORMATION

NO	Part number	Description	Note
1	WT3-P273-0S4	10G TO56 ASP 10.18mm, DFB 1270nm , -5~75C	
2	WT3-P273-1S4	10G TO56 ASP 10.18mm, DFB 1270nm , -5~85C	
3	WT3-P273-2S4	10G TO56 ASP 10.18mm, DFB 1270nm , -20~85C	
4	WT3-P273-4S4	10G TO56 ASP 10.18mm, DFB 1270nm , -40~85C	