



1310nm 1.25Gb/s SC TOSA

LDM3S503-002

Features

- *Data rate up to 1.25Gbit/s*
- *Low threshold current*
- *Built-in InGaAs monitor photodiode*
- *Coaxial SC package*
- *Industry-standard TO-56 packaged(4-PIN)*

Application

- *SDH/SONET Transmission system up to 1.25Gbps*
- *Gigabit Ethernet*
- *1Gbps fiber channel*
- *other applications*

Absolute Maximum Ratings

Parameter	Symbol	Unit	Min	Max
Storage Temperature Range	Ts	°C	-40	85
Relative Humidity	RH	%	-	85
Laser Diode Reverse Voltage	VRL	V	-	2
Laser Diode Forward Current	IFL	mA	-	100
Monitor Diode Reverse Voltage	VRD	V	-	15
Monitor Diode Forward Current	IFD	mA	-	2
Lead Solder Temperature	-	°C	-	260
Lead Soldering Time	-	s	-	10

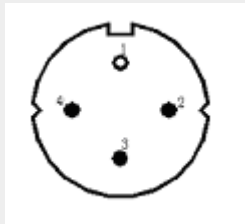
Recommended Operating Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Case Operating Temperature Range	Tc	°C	-40	25	85
Operating Voltage	Vop	V	-	1.2	1.5

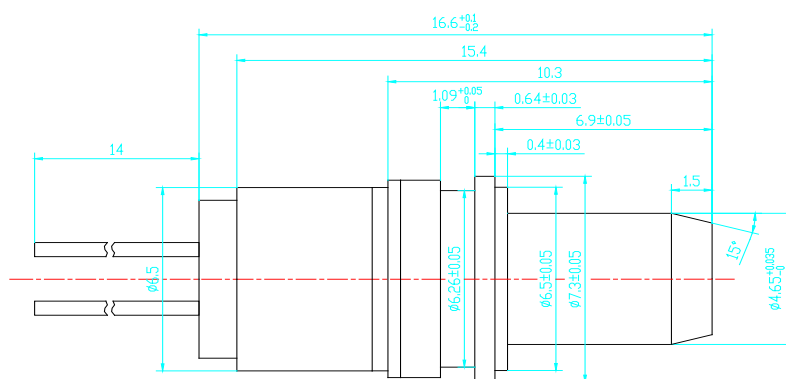
Specifications (T=25°C, unless otherwise noted)

Parameter	Symbol	Unit	Min	Typ	Max	Test condition
Electrical Characteristics						
Threshold Current	Ith	V	-	10	14	CW
			-	-	28	CW, over temperature
Rise/Fall Time	Tr/f	ns	-	-	0.3	Ib=Ith; 10%~90%
Monitor Current	Im	µA	200	-	1000	CW, If = Ith+20mA
Monitor Dark Current	Id	nA	-	0.1	10	CW,VRD=5V
			-	-	500	CW,VRD=5V,over temperature
Optical Characteristics						
Optical Output Power	Po	dBm	0.3	-	1.0	CW,If = Ith+20mA
Slope Efficiency	Se	mW/mA	0.015	-	0.05	CW
Central Wavelength	λc	nm	1295	1310	1330	CW
			1270	-	1355	CW, over temperature
Spectral Width	Δλ	nm	-	1	3	CW, RMS
Tracking Error	ΔPf	dB	-1.5	-	+1.5	CW, over temperature Im=const@Pf(Ith+20mA)
Monitor PD Capacitance	C	pF	-	5	10	VRD=5V, f=1MHz
Connector Repeatability	-	dB	-0.5	-	+0.5	Same plug orientation, same fiber, 10 times plug, CW

Pin Description

Pin	Description	Bottom View
1	CASE	
2	LD (N)	
3	Detector (P)	
4	LD (P) / Detector (N)	

Package Outline (Unit: mm)



Ordering Information

Part No.	Specification					
	Package	Datarate	Laser	Optical Power	Temp	Others
LDM3S503-002	SC TOSA	1.25G	1310nm FP	0.3~1mW	-40~85°C	Common Anode; Case Floating

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