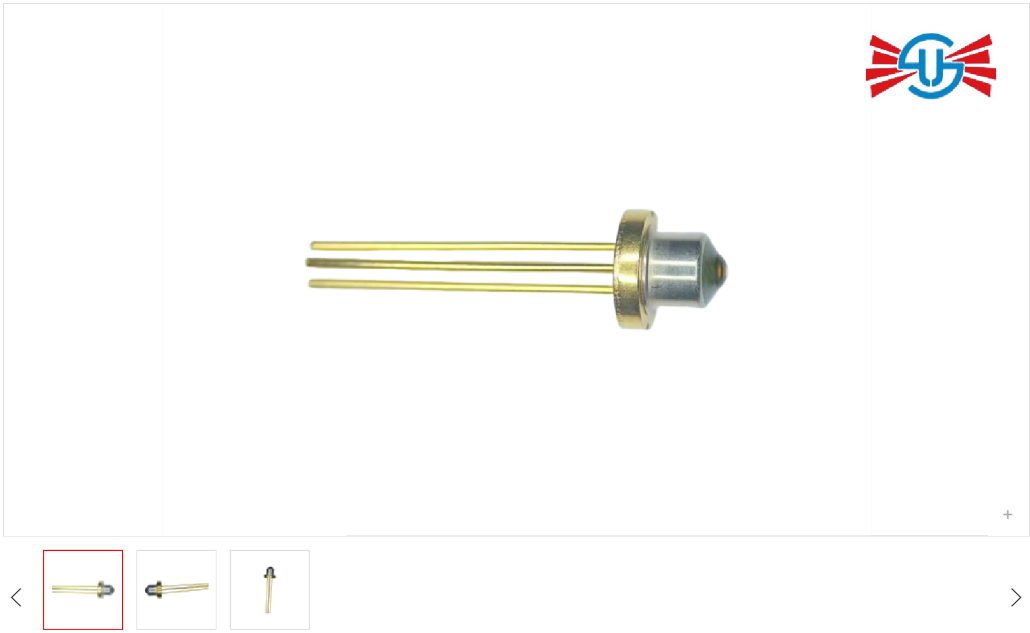




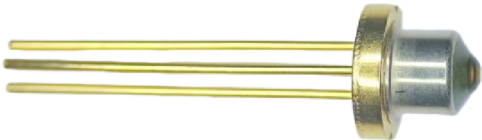
2.5Gbps 1310nm DFB LD TO-CAN (Large ball)



Classification:[Laser Product](#)

- Data rate up to 2.5 Gbps
- 1310nm typical emission wavelength
- Wide temperature range operation from -20°C to+85°C
- TO56 package with Φ2.0mm/2.0 refractivity ball lens without coating
- Uncooled DFB LD chip

The [2.5Gbps DFB LD TO-CAN Large ball](#) is a remarkable component in optical communication technology.



The DFB LD at the heart of this device is engineered to support a data rate of 2.5Gbps. This allows for efficient and reliable transmission of data, making it suitable for a variety of applications where medium - speed data transfer is required. The DFB structure provides stable and single - mode laser output. This stability is crucial in applications such as fiber - optic communication systems, where signal consistency over long distances is vital.

The TO - CAN packaging offers a number of benefits. It provides mechanical protection to the DFB LD, safeguarding it from physical damage and environmental factors. It also aids in heat dissipation, which is essential for maintaining the optimal performance of the laser diode during continuous operation.

The large ball feature in this component is particularly interesting. It can enhance the optical coupling efficiency. With a larger ball, there is a better chance of more effective light collection and transmission, reducing optical losses. This large ball design can contribute to improved overall performance of the optical system where the 2.5Gbps DFB LD TO - CAN is integrated. It can be used in various scenarios, such as in metro - area networks or in high - speed data communication links within data centers, where reliable and efficient optical signal generation and transmission are key requirements.

Contact: [WhatsApp](#) sales@sygdtop.com

[Inquiry](#)

[Features](#)

[Applications](#)

[Parameter](#)

[System Certification](#)

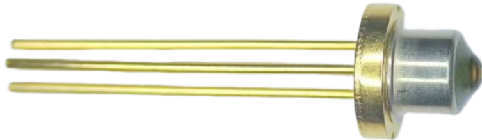
[Factory](#)

[Inquiry](#)



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Applications

- Data communications
- SDH telecommunications
- Other optical transmission system

Parameter

Absolute Maximum Ratings

Parameters	Symbol	Min	Max	Unit
Reverse Voltage (Laser Diode)	VRL		2	V
Laser Forward Current	Iop	-	100	mA
Operating Temperature	Top	-20	85	°C
Storage Temperature	TSTG	-40	100	°C
ESD Voltage	HBM≥500			V

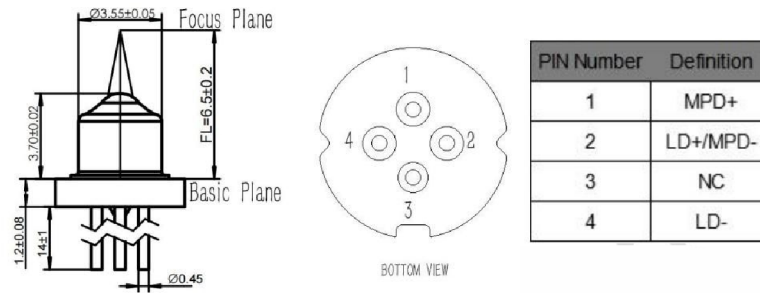
Electrical/Optical Characteristics (T=25°C)

Parameters	Symbol	Test conditions	Min	Typ	Max	Unit
Optical Output Power	Po	CW,Ith+20mA	7	-	-	mW
Threshold Current	Ith	CW,Tc=25°C	-	10	9.5	mA
Operating Voltage	Vop	CW,Ith+20mA	-	1.2	1.5	V
Center Wavelength	λ	CW,Ith+20mA;	1290	1310	1330	nm
Spectrum Width (-20dB)	$\Delta\lambda$		-	-	1.0	nm
Side-mode Suppression Ratio	SMSR		35	-	-	dB
Series Resistance	Rs	CW,Ith+5 to Ith+20mA			15	Ohm
Po-Kink	-	CW,Ith+5 to 70mA		-	30	%
Monitor Current (MPD)	Im	CW,Ith+20mA	150	-	1000	mA



Plane to Fiber

Outline Drawings & Pin Connection Type



Keyword: 2.5Gbps 1310nm DFB LD TO-CAN (Large ball)

Previous Page 2.5Gbps 1310nm DFB LD TO-CAN (Globule)

Next Page None

