2.5Gbps 1310nm DFB LD TO-CAN（Globule）

Classification:Laser Product

- **High-Speed Performance**: Supports data rates up to 2.5Gbps for seamless optical communication.
- **Optimized Wavelength**: 1310nm DFB Laser Diode, perfect for SDH and data transmission systems.
- **Wide Temperature Range**: Operates reliably from -20°C to +85°C, ideal for harsh environments.
- **Compact Design**: TO56 package with a 2.0mm uncoated ball lens for precise beam control.
- **Energy Efficiency**: Uncooled DFB LD chip reduces power consumption and operational costs.

The **2.5Gbps 1310nm DFB Laser Diode TO-CAN (Globule)** is a cutting-edge solution designed for high-speed optical communication systems. Engineered with an uncooled Distributed Feedback (DFB) Laser Diode chip, this product delivers exceptional performance at a 1310nm wavelength, making it ideal for applications in SDH telecommunications, data communications, and other optical transmission systems. With a data rate of up to 2.5Gbps, this laser diode ensures reliable, high-bandwidth connectivity for demanding environments such as 5G infrastructure, data centers, and enterprise networks

Contact: WhatsApp sales@sygdtop.com

Inquiry

Features

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Applications

The **2.5Gbps 1310nm DFB Laser Diode TO-CAN (Globule)** is engineered for high-performance optical communication systems. Its key applications include:

- **Data Communications**: Powers high-speed data transmission in data centers, enterprise networks, and cloud computing infrastructure, leveraging the 2.5Gbps DFB Laser Diode for reliable connectivity.
- **SDH Telecommunications**: Supports Synchronous Digital Hierarchy (SDH) systems, enabling efficient and stable signal transmission for telecom networks, including 5G base stations.
- **Other Optical Transmission Systems**: Ideal for fiber-optic networks, metro networks, and other optical systems requiring a high-speed, uncooled 1310nm Laser Diode for robust performance.

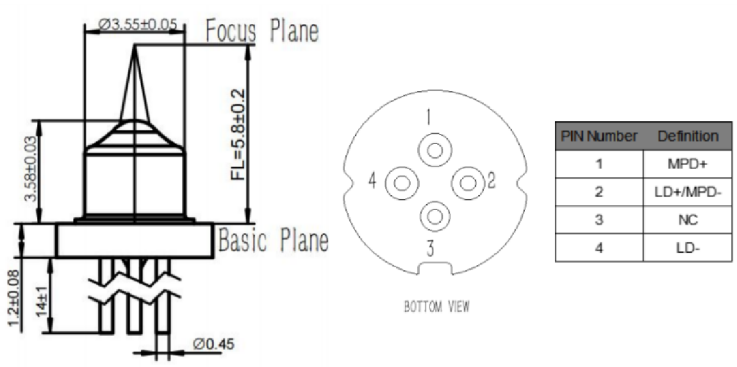
This DFB Laser Diode is a versatile solution for engineers and system integrators seeking high-speed, energy-efficient components for advanced optical communication applications.

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

Electrical/Optical Characteristics (T=25℃)

Parameters	Symbol	Test conditions	Min	Typ	Max	Unit
Optical Output Power	Po	CW,Ith+20mA	7	-	-	mW
Threshold Current	Ith	CW,Tc=25℃	-	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
Dark Current (MPD)	Id	Vr=5V			100	nA
Distance between Reference Plane to Fiber	FL		6.3	6.5	6.7	mm

Outline Drawings & Pin Connection Type



PIN Number	Definition
1	MPD+
2	LD+/MPD-
3	NC
4	LD-

Keyword: china 2.5G DFB LD TO-CAN Globule china 2.5Gbps DFB LD TO-CAN Globule 2.5Gbps 1310nm DFB LD TO-CAN（Globule）

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


证书号第17287218号

实用新型专利证书

实用新型名称：一种探测器芯片封装结构

发 明 人：张萌

专 利 号：ZL 2022 2 1208058.1

专利申请日：2022年05月18日

专 利 权 人：武汉斯优光电技术有限公司

地 址：430000 湖北省武汉市东湖新技术开发区光谷二路219号鼎杰现代机电信息孵化园一期14栋5层1号

授权公告日：2022年08月26日 授权公告号：CN 217306481 U

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局长 申长雨

2022年08月26日

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其他事项参见续页


证书号第17311799号

实用新型专利证书

实用新型名称：一种T046全自动分脚装置

发 明 人：冉杰;钱义龙;张萌

专 利 号：ZL 2022 2 1216389.X

专利申请日：2022年05月18日

专 利 权 人：武汉斯优光电技术有限公司

地 址：430000 湖北省武汉市东湖新技术开发区光谷二路219号鼎杰现代机电信息孵化园一期14栋5层1号

授权公告日：2022年08月30日 授权公告号：CN 217316770 U

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局长 申长雨

2022年08月30日

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其他事项参见续页


证书号第17565465号

实用新型专利证书

实用新型名称：一种全新T046全自动双工位下料装置

发 明 人：冉杰;梁雪峰;张萌

专 利 号：ZL 2022 2 1661939.9

专利申请日：2022年06月29日

专 利 权 人：武汉斯优光电技术有限公司

地 址：430000 湖北省武汉市东湖新技术开发区光谷二路219号鼎杰现代机电信息孵化园一期14栋5层1号

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局长 申长雨

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