1000um 1310 DFB Laser

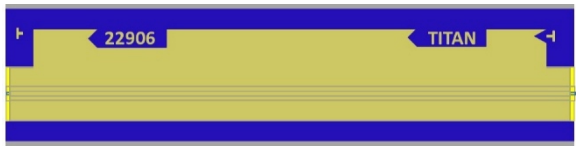
The laser is a ridge structure design with multi-quantum well (MQW) active layers and a distributedfeedback (DFB) grating with output power up to 70mW.

Features:

- Single mode
- Edge-emitting
- AlGaInAs MQW(Multiple Quantum Well）
- High output power
- RoHS compliant and design for Telcordia-GR468
- Operating Temperature 0～70℃

Applications:

- Gigabit Ethernet
- CW(Continuous Wave)
- Silicon Photons



60mW Electro-Optical Characteristics:

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Threshold Current	Ith	Tc=25℃&CW	--	25	--	mA
Slope Efficiency	η	P=10mW ,Tc=25℃&CW	--	0.3	--	W/A
Operating Current	I_{OP}	P=60mW, Tc=70℃&CW	--	270	350	mA
		P=60mW ,Tc=25℃&CW	--	200	250	mA
Series Resistance	R_s	Tc=25℃&CW	--	2	6	Ohm
Peak Wavelength	λ_p	-5～70℃， P=70mW&CW	1300	1310	1320	nm
Side Mode Suppression Ratio	$SMSR_0$	Tc=25℃&CW 300mA	50	55	--	dB
Farfield (Vertical)	θ_v	Tc=25℃&CW 300mA	--	25	--	°
Farfield (Horizontal)	θ_h	Tc=25℃&CW 300mA	--	15	--	°

70mW Electro-Optical Characteristics:

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Threshold Current	Ith	Tc=25℃&CW	--	25	--	mA
Slope Efficiency	η	P=10mW ,Tc=25℃&CW	--	0.3	--	W/A
Operating Current	I_{OP}	P=70mW, Tc=70℃&CW	--	270	350	mA
	I_{OP}	P=70mW ,Tc=25℃&CW	--	200	250	mA
Series Resistance	R_s	Tc=25℃&CW	--	2	6	Ohm
Peak Wavelength	λ_p	-5～70℃， P=70mW&CW	1300	1310	1320	nm
Side Mode Suppression Ratio	$SMSR_0$	Tc=25℃&CW 300mA	50	55	--	dB
Farfield (Vertical)	θ_v	Tc=25℃&CW 300mA	--	25	--	°
Farfield (Horizontal)	θ_h	Tc=25℃&CW 300mA	--	15	--	°