1000um C-band DWDM DFB Laser

The laser is a promising light source for modern dense wavelength division multiplexing (DWDM) systems, with output power up to 65mW.

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:

- Single TEC (Thermo-Electric Cooler) for DFB temperature control
- DWDM
- Silicon Photons

Absolute maximum ratings:

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	T_s	-40	85	℃
Forward current	I_f	--	500	mA
Forward power**	P_f	--	120	mW
Reverse Voltage	V_R	--	2	V
ESD(HBM)	ESD	--	500	V

70mW Electro-Optical Characteristics:

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Threshold Current	Ith	Tc=25℃&CW	--	55	65	mA
Slope Efficiency	η	Tc=25℃&CW	0.28	0.3	--	W/A
Optical Output Power	P_{max}	Tc=25℃&CW I_{max}=300mA	65	70	--	mW
Series Resistance	R_s	Tc=25℃&CW	--	2	6	Ohm
Peak Wavelength	λ_p	Tc=25℃&CW 300mA	C**-0.4	C**	C**+0.4	nm
Side Mode Suppression Ratio	$SMSR_0$	Tc=25℃&CW 300mA	50	55	--	dB
Farfield (Vertical)	θ_v	Tc=25℃&CW 300mA	--	23	--	°
Farfield (Horizontal)	θ_h	Tc=25℃&CW 300mA	--	14	--	°
λ= C01-C61						