10G CWDM DFB

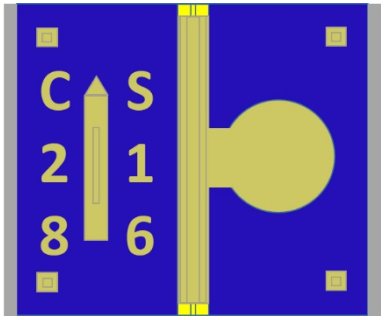
The laser is a ridge-type structure with multi-quantum well (MQW) active layers and a distributedfeedback (DFB) grating with direct modulation bandwidth up to 15GHz.

Features:

- Single mode
- Edge-emitting
- Operating temperature -40～85℃
- Good uniformity
- RoHS compliant and design for Telcordia-GR468
- For =1471nm, 1491nm, 1511nm, 1531nm, 1551nm, 1571nm

Applications:

- Uncooled applications
- Gigabit Ethernet
- Data Center



Absolute maximum ratings:

Parameter	Symbol	Min.	Max.	Unit
Operating Temperature	T_o	-40	85	℃
Storage Temperature	T_s	-40	100	℃
Forward current	I_f	--	80	mA
Forward power**	P_f	--	25	mW
Reverse Voltage	V_R	--	2	V
ESD(HBM)	ESD	--	500	V

Electro-Optical Characteristics:

Parameter	Symbol	Test Conditions	Unit	Min.	Typ.	Max.
Threshold Current	Ith	T_c=25℃&CW	mA	--	8	--
		T_c=85℃&CW	mA	--	20	25
Slope Efficiency	η	T_c=25℃&CW	W/A	0.25	--	--
Optical Output Power	P_f	T_c=25℃&CW Ith+20mA	mW	5	6	--
		T_c=85℃&CW Ith+20mA	mW	2.5	3	
Operating Voltage	Vf	T_c=25℃&CW Ith+20mA	V		1.2	1.5
Series Resistance	R_s	T_c=25℃&CW	Ohm	--	--	12
Peak Wavelength	λ_p	T_c=25℃&CW Ith+20mA	nm	λ-3	λ	λ+3
Wavelength/Temperature Coefficient	dλ/dT	T=-40～85℃	nm/℃	--	0.09	--
Spectral Width(-20 dB)	λ	T_c=25℃&Ith+20mA	nm		0.3	1
Side Mode Suppression Ratio	$SMSR_1$	T_c=25℃&CW Ith+20mA	dB	38	40	--
	$SMSR_2$	T_c=85℃&CW Ith+20mA	dB	35	37	--
Modulation Bandwidth（-3dB）	BW	T_c=25℃&CW Ith+20mA	GHZ	10	15	