

10G 1491nm CWDM DFB TO56 for E-Temp

The SHIJIA's 10G 1491nm CWDM DFB TO56 for use in uncooled applications up to 10Gbps. The TO device is available in hermetic TO-56 package with a aspherical lens and integrated InGaAs monitoring photo diode.

Features:

- High stability and reliability
- Hermetic TO56 package with Aspherical Lens Cap FL=7.5mm
- Operating case temperature: -20 to 85°C
- Integrated 10G CWDM DFB LD Chip
- Uncooled operation
- Low threshold current
- Integrated InGaAs monitoring photodiode
- Qualified as per intent of Telcordia GR-468
- RoHS compliant

Applications:

- 10 Gigabit Ethernet
- Data communications
- Point-to-point fiber optic links
- Fiber Channel

Optical and Electrical Characteristics(Tc=25°C±2°C, Unless otherwise noted):

Parameter	Symbol	Min	Typ	Max	Units	Notes
Threshold Current	I _{th}		10	12	mA	CW, T _c =25°C
			20	25	mA	CW, T _c =85°C
Optical Output Power	P _o	5.0			mW	T _c =25°C I _f =I _{th} +20mA
Slope Efficiency	SE	0.25			mW/mA	T _c =25°C , I _f =I _{th} +20mA
Centre Wavelength	λ	1488	1491	1494	nm	CW, I _f =I _{th} +20mA
Optical Spectrum Width	Δλ			1	nm	CW I _f =I _{th} +20mA , at -20dB
Side Mode Suppression Ratio	SMSR	30			dB	CW, I _f = I _{th} +20mA
Monitor Current	I _m	50		1000	uA	I _f =I _{th} +20mA
Monitor Dark Current	I _d			100	nA	V=-5V
Focal Length	FL	7.2	7..5	7.8	mm	

***Remark: Power can be optimized per customer's requirement**

