

### 10G 1511nm CWDM DFB TO56 for E-Temp

The SHIJIA's 10G 1511nm 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 <sub>th</sub>		10	12	mA	CW, T <sub>c</sub> =25°C
			20	25	mA	CW, T <sub>c</sub> =85°C
Optical Output Power	P <sub>o</sub>	5.0			mW	T <sub>c</sub> =25°C I <sub>f</sub> =I <sub>th</sub> +20mA
Slope Efficiency	SE	0.25			mW/mA	T <sub>c</sub> =25°C , I <sub>f</sub> =I <sub>th</sub> +20mA
Centre Wavelength	λ	1508	1511	1514	nm	CW, I <sub>f</sub> =I <sub>th</sub> +20mA
Optical Spectrum Width	Δλ			1	nm	CW I <sub>f</sub> =I <sub>th</sub> +20mA , at -20dB
Side Mode Suppression Ratio	SMSR	30			dB	CW, I <sub>f</sub> = I <sub>th</sub> +20mA
Monitor Current	I <sub>m</sub>	50		1000	uA	I <sub>f</sub> =I <sub>th</sub> +20mA
Monitor Dark Current	I <sub>d</sub>			100	nA	V=-5V
Focal Length	FL	7.2	7.5	7.8	mm	

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

