

### 2.5G 1490nm DFB TO56 for E-Tem C+

SHIJIA's 2.5G 1490nm DFB TO56 uncooled, hermetically sealed, 4pin TO-56 style packages are a cost-effective means of providing a low-noise light source.

#### Features:

- Uncooled operation
- 1490nm 2.5G DFB laser
- High stability and reliability
- TO56 package with Aspherical Lens Cap FL=7.5mm
- Operating case temperature: -20 to 85°C
- Qualified meet ROHS requirement

#### Applications:

- PON /Access /Optical Ethernet /SDH /FTTx Networks Metro Area Networks
- Data communications
- Point-to-point fiber optic links
- Other optical transmission system

### 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	15	mA	CW, T <sub>c</sub> =25°C
			25	40	mA	CW, T <sub>c</sub> =85°C
Optical Output Power	P <sub>o</sub>	5.5			mW	T <sub>c</sub> =25°C I <sub>f</sub> =I <sub>th</sub> +20mA
Slope Efficiency	SE	0.275			mW/mA	T <sub>c</sub> =25°C , I <sub>f</sub> =I <sub>th</sub> +20mA
Centre Wavelength	λ	1480	1490	1500	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>	100		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	7.0	7.5	8.0	mm	

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

