

C-Band Cooled High-Power DFB TOSA

SHIJIA's C-Band Cooled High-Power DFB TOSA style packages are a cost-effective means of providing a low-noise light source.

Features:

- TEC (Thermo-Electric Cooler) for temperature control
- C-Band High-Power DFB laser
- High stability and reliability
- Different connectors :SC/APC,LC/UPC.FC/APC / LC receptacle ...
- Operating case temperature: 0to 70°C
- Qualified meet ROHS requirement
- Built-in optical isolator

Applications:

- Optical fiber sensor
- 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 _{th}		50	75	mA	CW,T _c =25°C
Output Power	P	15	20		mW	T _c =25°C , I=200mA
Centre Wavelength	λ		1550		nm	CW, I _r =200mA
Optical Spectrum Width	Δλ			1	nm	CW I _r =200mA , at -20dB
Side Mode Suppression Ratio	SMSR	30			dB	CW, I _r = 200mA
Monitor Current	I _m	50		4000	uA	I _r =200mA
Monitor Dark Current	I _d			100	nA	V=-5V
TEC Voltage	V _{TEC}			1.1	V	
TEC Current	I _{TEC}			1.2	A	
Thermistor resistance	R _{th}	9.5	10	10.5	kΩ	T _c =25°C
TEC Power Dissipation	P _{TEC}			1.2	W	

*Remark:

- 1、 Power can be optimized per customer's requirement
- 2、 TEC set point temperature: according to Customer's requirement to set