

8pin mini & 14pin 980nm Pumped Laser / 8pin 迷你 & 14pin 980nm 泵浦激光器

Description 描述

ORTE8981-1-***-1-0 Series 980nm pump laser module has been specifically designed for low noise low power Erbium Doped Fiber Amplifiers (EDFA) and ASE. Low shrinkage adhesive to fix the coupling lens fiber and low threshold current chip are adopted, lead to excellent stability and reliability of 980nm pump laser module.

ORTE8981-1-xxx-1-0 系列 980nm 泵浦激光组件专设计用于低功率光纤放大器和 ASE 泵浦光源, 采用低收缩率胶水固定耦合透镜光纤, 选用低阈值电流激光芯片, 提升组件的可靠性和稳定性。

Features 特征

14 or 8pin Butterfly Package 14/8-pin 蝶形封装
With TEC and Monitor Photodiode (MPD) 带热电制冷和监控 PD
Single Mode Fiber(HI-1060) Coupling HI-1060单模光纤耦合
Telcordia GR-468-CORE and RoHS Compliant
满足 Telcordia GR-468-CORE 标准和 RoHS

Applications 应用

Low noise erbium doped fiber amplifiers/ASE 低噪声 EDFA/ASE
High bit rate, multichannel digital EDFAs 高速率多通道数字 EDF
Dense wavelength division multiplexing(DWDM) EDFAs for srr package Designs 用于小尺寸的 DWDM EDFA
CATV system CATV 系统
Optical Fiber Gyro 光纤陀螺



Absolute Maximum Ratings 最大额定值

Parameter 参数	Symbol 符号	Min. 最小值	Max. 最大值	Unit 单位	Test Conditions 测试条件
LD Forward Current LD 正向电流	I_F	-	1000	mA	-
LD Reverse Voltage LD 反向电压	V_r	-	0.3	V	-
TEC Operation Current TEC 工作电流	I_{tec}	-	2	A	-
TEC Operation Voltage TEC 工作电压	V_{tec}	-	4	V	-
Storage Temperature 储存温度	T_{stg}	-40	85	°C	-
ESD Level 防静电级	-	-	500	V	C=100pF, R=1.5KΩ, Hum anbody model

The above product information is for reference only, please contact our company for the latest information.

Electrical/Optical Characteristics 电光特性

(BOL, $T_c = -25^{\circ}\text{C}$ to 70°C , TLD= 25°C , -50dB reflection, unless noted otherwise)

Parameter 参数	Symbol 符号	Unit 单位	Min. 最小值	Type 典型值	Max. 最大值	Remark 备注
Threshold Current 阈值电流	I_{th}	mA	-	50	80	
Optical Output Power 输出光功率	P_o	mW	400	-	-	@600mA
			600	-	-	@900mA
LD Forward Voltage 激光正向电压	V_F	V	-	-	2.5	
Center Wavelength 中心波长	λ_c	nm	972	-	985	
Spectrum Width 谱宽	$\Delta\lambda$	nm	-	-	1	RMS@-3dB
MPD Responsibility 监控 PD 响应度	R_{mpd}	$\mu\text{A/mW}$	0.5	1	20	
TEC Current 制冷器电流	I_{tec}	A	-	-	1.3	$\Delta T=50^{\circ}\text{C}$, $I_{op}=450\text{mA}$
TEC Voltage 制冷器电压	V_{tec}	V	-	-	3.5	$\Delta T=50^{\circ}\text{C}$, $I_{op}=450\text{mA}$
Thermistor Resistance 热敏电阻值	R_a	KΩ	9.5	10	10.5	$T=25^{\circ}\text{C}$