

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-temperature glass soldering technology of fixing lensed 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，采用低温玻璃焊料固定耦合透镜光纤，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

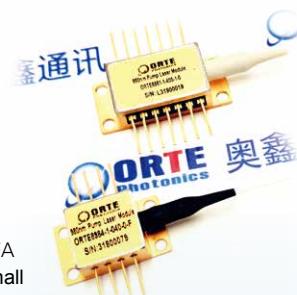
14 or 8pin Butterfly Package 14/8-pin 蝶形封装

With TEC and Monitor Photodiode (MPD) 带热电制冷和控 PD

Single Mode Fiber(HI-1060) Coupling 带透镜单模光纤耦合

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 EDFA 高速率多通道数字 EDFA

Dense wavelength division multiplexing(DWDM) EDFA for small 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	Unit 单位	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 _{sg}	-40	85	°C	-	-
ESD Level 防静电级	-	-	500	V	C=100pF, R=1.5KΩ, Hum anbody model	

Electrical/Optical Characteristics 电光特性

(BOL,Tc=-25°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	Δλ	nm	-	-	1	RMS@-3dB
MPD Responsivity 监控 PD 响应度	R _m	μA/mW	0.5	1	20	
TEC Current 制冷器电流	I _{tec}	A	-	-	1.3	ΔT=50°C ,lop=450mA
TEC Voltage 制冷器电压	V _{tec}	V	-	-	3.5	ΔT=50°C ,lop=450mA
Thermistor Resistanc 热敏电阻值	R _{th}	KΩ	9.5	10	10.5	T=25°C