

1310nm DFB Lasers / 1310nm DFB 激光器

Description 描述

The ORTE7131 series of 1310nm DFB laser modules are intended for use in the transmission of broadband analog signals. Their high linearity makes them especially suitable for CATV broadcast and narrowcast applications. All critical components, including optical isolator, TEC, thermistor, laser, and monitor photodiode are hermetically sealed in a butterfly package.

ORTE7131 系列 1310DFB 激光器专用于宽带模拟信号传输。高线性度尤其适用于 CATV 广播和窄播。所有关键元器件包含光隔离器、TEC、热敏电阻、激光器及检测二极管，均以 14 针蝶形气密性封装。

Features 特征

Directly Modulated DFB Lasers;

OC-48 Compatible Pinouts;

59 Channel PAL Loading;

Up to 14 dBm Optical Power

Telcordia qualified

Covering CWDM Band

直调式 DFB 激光器

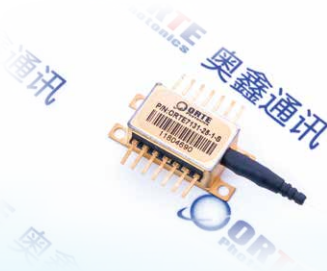
兼容 OC-48 引脚线

承载 59 路 PAL 制信号

光输出功率高达 14dBm

满足 Telcordia 标准

涵盖 CWDM 波段



Applications 应用

1310nm broadcast and narrowcast 1310 广播和窄播

CATV forward path, RF over fiber CATV 正向传输，光纤射频传输

Fiber sensor system 光纤传感系统

Various DFB test light sources 各类 DFB 测试光源

The main performance parameters / 1310nm DFB 激光器主要性能参数

Parameter 参数	Symbol 符号	Test Conditions 测试条件	Min. 最小值	Max. 最大值	Unit 单位
Operating Current 工作电流	I_{op}	-	-	100	mA
Operating Temperature 工作温度	T_{op}	$I_f = I_{op}$	25		°C
Operating Wavelength 工作波长	λ_{op}	IF=IOP, T=TOP	1301	1319	nm
Bandwidth 工作带宽		-	1.1	-	GHz
TEC Current 制冷电流	I_{TEC}	$T_c = -20 \sim -70^\circ\text{C}$, If=100 mA	-1.0	1.6	Amp
Composite 2nd Order 二阶失真	CSO	X=1 -- CSO \leq -57dBc, CTB \leq -65dBc X=2 -- CSO \leq -60dBc, CTB \leq -65dBc			dBc
Composite Triple Beat 三阶失真	CTB				dBc
Carrier to Noise Ratio 载噪比	C/N	51			dB
Relative Intensity Noise 底噪	RIN	-		-155	dB/Hz

MODEL #s 型号命名

MODEL #s 型号编码	ALM3P-N-X-Y
Output Power 输出功率	N=08, 10, 14, 16, 18, 20, 22, 24, 26, 31 mW
Distortion 失真指标	X=1, 2 (see above table 1)
Fiber connector 光连接器	Y=S -- SC/APC Y=S -- FC/APC