

1310nm DFB Lasers / 1310nm DFB 激光器

Description 描述

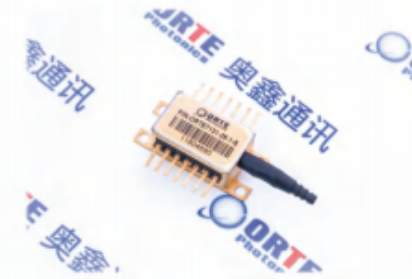
The ORTE7131 series of 1310nm DFB laser modules are intended for use in the transmission of broadband analog signals. Their high linearity makes them especially suitable for CATV broadcast and narrowcast applications. All critical components, including optical isolator, TEC, thermistor, laser, and monitor 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}	$I_f=I_{OP}, T=TOP$	1301	1319	nm
Bandwidth 工作带宽		-	1.1	-	GHz
TEC Current 制冷电流	I_{TEC}	$T_c = -20 \sim 70^\circ C, I_f = 100 \text{ mA}$	-1.0	1.6	Amp
Composite 2nd Order 二阶失真	CSO	$X=1 - CSO \leq -57 \text{ dBc}, CTB \leq -65 \text{ dBc}$ $X=2 - CSO \leq -60 \text{ dBc}, CTB \leq -65 \text{ dBc}$			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

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

MODEL #s 型号命名

MODEL #s 型号编码	ORTE7131-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 光接头	Y=S - SC/APC Y=S - FC/APC