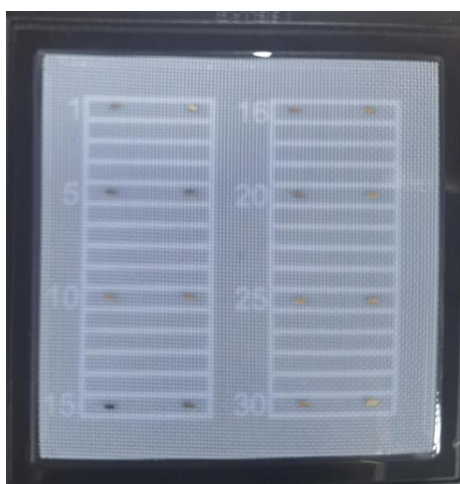




1550nm SOA 芯片

Semiconductor optical amplification chip, 1550nm, 10mW

DG-SM-1550-OPE-10



主要特性/ Key Features :

- 高功率/ High Power
- 高效率/ High Efficiency
- 高可靠性/ High Reliability

应用领域/ Applications :

- 硅光光源/ Silicon Light Source
- 高功率激光脉冲/ High-power laser pulse

技术规格书

性能参数 Performance Parameters	符号 Symbol	最小值 Minimum	典型值 Typical	最大值 Maximum	单位 Unit
光学和电学性能 Optical and Electrical Characteristics					
工作波长 Operating wavelength	λ_c	-	1550	-	nm
3dB带宽 3dB Optical bandwidth	$\Delta\lambda_{3dB}$	30	35	-	nm
工作电流 Drive current	I_F	-	350	450	mA
正向电压Forward voltage	V_F	-	-	1.6	V
小信号增益Small signal gain at @ - 24dBm signal	G	30	-	35	
增益纹波 Gain ripple with respect to λ	ΔG	-	-	3.0	dB
饱和输出功率 Saturation output power	P_{sat}	13	-	15	dBm
噪声系数 Noise figure	NF	-	7.5	-	dB
偏振相关增益 Polarization dependent gain	PDG		20		dB
出光角度 Beam Exit Angle	$\Delta\theta_R$	22	23	24	Deg
发散角(垂直)Beam divergence angle transverse(perpendicular)	$\theta_{\perp}$	-	35	-	Deg
发散角(水平)Beam divergence angle lateral(parallel)	$\theta_{//}$	-	22	-	Deg
几何尺寸 Geometrical					
腔长 Cavity length	L	1980	2000	2020	μm
宽度 Width	W	380	400	420	μm
厚度 Thickness	D	95	105	115	μm