

High-power Single Emitter Diode Lasers, 945nm, 22W cw

945nm 22W高亮度单管激光芯片

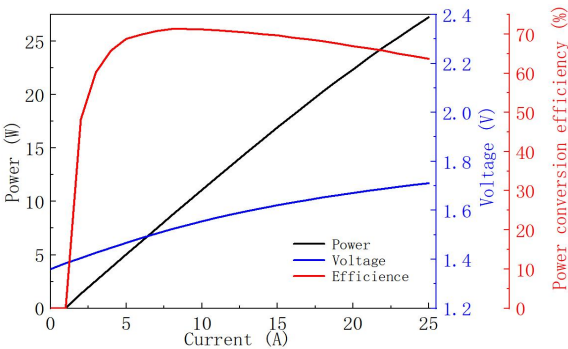
DG-UMC-160-945-TE-22-4.5

性能参数 Performance parameters	符号 Symbol	最小值 Minimum	典型值 Typical	最大值 Maximum	单位 Unit
Operation					
输出功率 Optical output power	Po		22		W
中心波长 Wavelength	λ_c	942	945	948	nm
冷波长@2A Wavelength@2A	λ_0	933	935	937	nm
工作模式 Operation mode			CW		
Geometrical					
发光区宽度 Emittier width	E.W.	155	160	165	μm
腔长 Cavity length	L	4495	4500	4505	μm
宽度 Width	W	395	400	405	μm
厚度 Thickness	D	135	145	155	μm
Electro Optical Data					
电光转换效率 Electro-optic conversion efficiency	η_c	62	66		%
斜率效率 Slope efficiency	SE	1.1	1.18		W/A
阈值电流 Threshold current	Ith		0.9	1.3	A
工作电流 Operating current	Iop		20	22	A
工作电压 Operating voltage	Vop		1.67	1.8	V
光谱宽度 Spectral width (FWHM)	$\Delta\lambda$		3	5	nm
波长温度系数 Wavelength temperature coefficient	$\Delta\lambda/\Delta T$		0.35		nm/°C
水平远场发散角 (95%E) Horizontal F.F.divergence angle	$\theta_{//}$		8.5	10	Deg
垂直远场发散角 (95%E) Vertical F.F. divergence angle	$\theta_{\perp}$		48	52	Deg
TE 偏振度 TE Polarization		95.0	97.0		%

备注：本参数为产品进行COS封装，CW电流模式，导热板25°C下条件下的测试参数。

Note: These parameters were obtained by testing COS packaged products in the CW mode at 25°C.

⚙ Power-Current-Voltage-Efficiency



⚙ Spectral characteristics

