

976nm 10W Single-emitter Laser Diode

Part number STR-976A-96-10-4.8-SE

	Symbol	Typ.	Unit
Operation			
Central wavelength	λ	976	nm
Output power	P_o	10	W
Operation mode		CW	
Geometrical			
Emitter width	W	96	um
Cavity length	L	4800	um
Chip width	W	500	um
Chip height	H	150	um
Electro-optical data			
Threshold current	I_{th}	0.8	A
Operating current	I_{op}	10	A
Operating voltage	V_{op}	1.8	V
Slope efficiency	ηd	1.1	W/A
Total conversion efficiency	η	55	%
Slow axis divergence	θ	9	degree
Fast axis divergence	θ	27	degree
Spectral width	$\Delta \lambda$	4	nm
Polarisation		TM	

The above specifications are based on COS (Chip On Submount), 25 degree. The divergences cover 95% energy and the spectral is FWHM (Full width half maximum).



