

976nm 15W Single-emitter Laser Diode

Part number STR-976A-190-15-4-SE

	Symbol	Typ.	Unit
Operation			
Central wavelength	λ	976	nm
Output power	P_o	15.5	W
Operation mode		CW	
Geometrical			
Emitter width	W	190	um
Cavity length	L	4000	um
Chip width	W	500	um
Chip height	H	150	um
Electro-optical data			
Threshold current	I_{th}	1.1	A
Operating current	I_{op}	15	A
Operating voltage	V_{op}	1.6	V
Slope efficiency	η_d	1.1	W/A
Total conversion efficiency	η	64	%
Slow axis divergence	θ	10	degree
Fast axis divergence	θ	29	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).

