

**976 nm 540W Fiber Coupled Semiconductor Laser
HJM976±3-540-F200-22-HC**

Model #: HJM976±3-540-F200-22-HC

Description: 976 nm 540W Fiber Coupled Semiconductor Laser

Features: 976 nm wavelength, 540W output power, 200µm fiber core, 0.22 NA, narrow bandwidth $\Delta\lambda \sim 6$ nm, 1040 – 1100 nm feedback protection.

Application: Fiber laser pumping, material processing

Specifications:

Specifications(25°C)		Symbol	Unit	HJM976±3-540-F200-HC		
				Minimum	Typical	Maximum
Optical Data	CW-Output Power	P_o	W	-	540	-
	Center Wavelength	λ_c	nm	976±3		
	Spectral Width (FWHM)	$\Delta\lambda$	nm	~ 6		
	Light within 0.18 NA	-	%	95		
	Wavelength Shift with Temperature	$\Delta\lambda/\Delta T$	nm/°C	-	0.3	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	50	-
	Operating Current	I_{op}	A	-	25.5	-
	Threshold Current	I_{th}	A	-	1.1	-
	Operating Voltage	V_{op}	V	-	43	-
Fiber Data ⁽¹⁾	Core diameter	D_{core}	µm	196	200	204
	Cladding diameter	D_{clad}	µm	217	220	223
	Numerical Aperture	N.A.	-	0.20	0.22	0.24
	Total Fiber Length	L_f	m	-	2	-
	Fiber termination	-	-	-	None	-
Feedback Isolation	Wavelength Range	λ	nm	1040~1100		
	Isolation	-	dB	-	30	-
Others	ESD	V_{esd}	V	-	-	500
	Storage Temperature (Non-operating)	T_{st}	°C	-30	-	85
	Storage Relative Humidity	-	%	-	-	90
	Cooling Approach	-	-	-	Water Cooling	-
	Lead Soldering Temp	T_{is}	°C	-	-	280
	Lead Soldering Time	t	sec	-	-	10
	Operating Temperature	T_{op}	°C	5	-	45
	Operating Relative Humidity	RH	%	-	-	75

(1) Customized fiber and connector available

