

976 nm 9W Fiber Coupled Diode Laser HJ976A02RN-9W

Model #: HJ976A02RN-9W

Description: 976 nm 9W Fiber Coupled Diode Laser

Features: 976 nm wavelength, 9W output power, 105 μm fiber core, 0.22 NA, narrow bandwidth $\Delta\lambda \leq 0.7$ nm, 1040 – 1200 nm feedback protection.

Application: Fiber laser pumping, solid state laser pumping

Specifications:

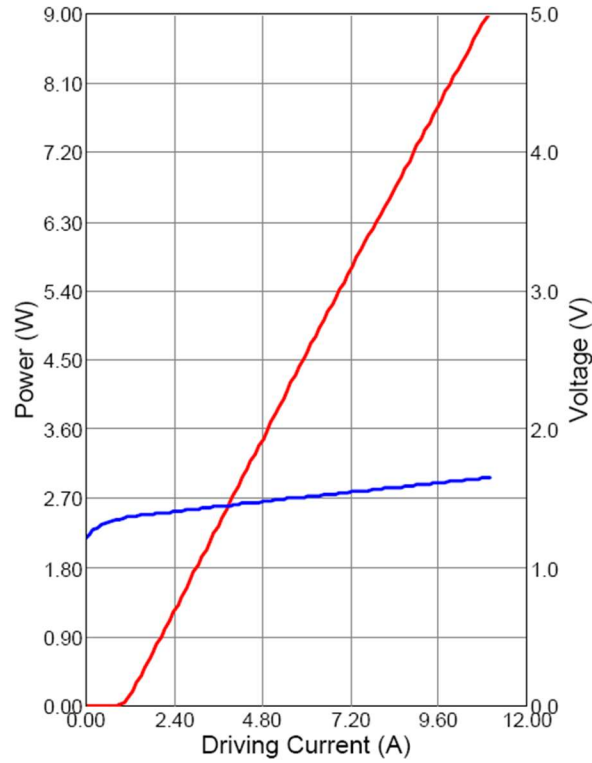
Specifications(25□)		Symbol	Unit	K976A02RN-9.000W		
				Minimum	Typical	Maximum
Optical Data(1)	CW-Output Power	P_o	W	9	-	-
	Center Wavelength	λ_c	nm	976±0.5		
	Spectral Width (FWHM)	$\Delta\lambda$	nm	< 0.7		
	Wavelength Shift with Temperature	$\Delta\lambda/\Delta T$	nm/□	-	0.02	-
	Wavelength Shift with Current	$\Delta\lambda/\Delta I$	nm/A	-	0.03	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	48	-
	Operating Current	I_{op}	A	-	12	13
	Threshold Current	I_{th}	A	-	0.9	-
	Operating Voltage	V_{op}	V	-	1.6	2
	Slope Efficiency	η	W/A	-	0.8	-
Fiber Data (2)	Core diameter	D_{core}	μm	-	105	-
	Cladding diameter	D_{clad}	μm	-	125	-
	Buffer diameter	D_{buf}	μm	-	250	-
	Numerical Aperture	N.A.	-	-	0.22	-
	Total Fiber Length	L_f	m	-	1	-
	Fiber Loose Tubing Diameter/Length	-	μm	0.9mm PVC 15cm		
	Minimum Bending Radius	-	mm	60	-	-
	Fiber termination	-	-	-	None	-
Feedback Isolation	Wavelength Range (3)	λ	nm	1040~1200		
	Isolation	-	dB	-	30	-
Others	ESD	V_{esd}	V	-	-	500
	Storage Temperature (Non-operating) (4)	T_{st}	°C	-20	-	70
	Lead Soldering Temp	T_{ls}	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature(5)	T_{op}	°C	25	-	30
	Relative Humidity	RH	%	15	-	75

(1) Data measured under operation output at 9W.

(2) Other fiber type customized according to customers requirements.

- (3) Other feedback isolation customized according to customers requirements.
- (4) A non-condensing environment is required for operation and storage conditions are from -20 to +70 °C with relative humidity between 15 to 75 %.
- (5) Operating temperature defined by the package housing. Acceptable operating range is 25 - 30°C, but performance may vary.

Characteristics



TYP. Spectrum (T=25 °C)

