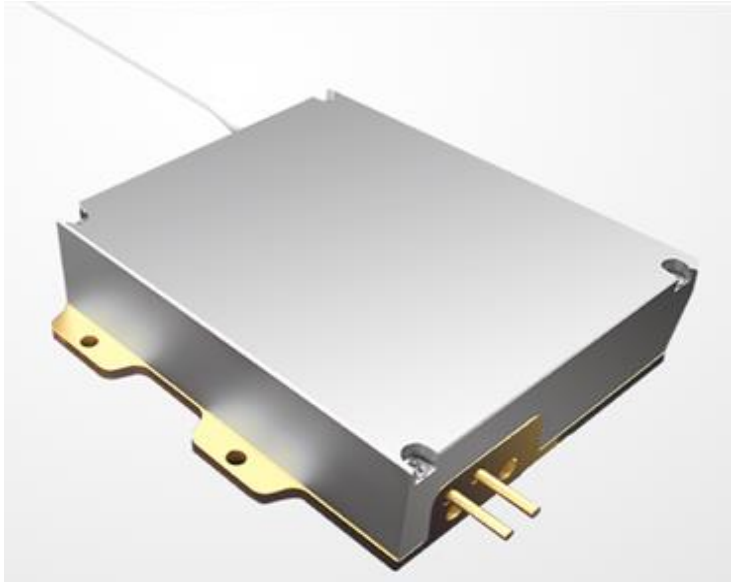


**940nm 120W High Power Fiber Coupled Diode Laser**  
**RPK940EN1RN-120.0W (Customized Product)**

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**Features:**

- ◆ 940nm wavelength
- ◆ 120W output power
- ◆ 106.5 $\mu$ m fiber core diameter
- ◆ 0.22NA
- ◆ 1020nm~1200nm feedback protection

**Applications:**

- ◆ Fiber laser pumping

High Power Diode Laser Modules are manufactured by adopting specialized fiber-coupling techniques, resulting in volume products with a high efficiency, stability and superior beam quality. The products are achieved by transforming the asymmetric radiation from the laser diode chip into an output fiber with small core diameter by using special micro optics. Inspecting and burn-in procedures in every aspect come to a result to guarantee each product with the reliability, stability and long lifetime.

Our research staffs are constantly improving and innovating the processing technology in the producing process, based on the professional knowledge and experience accumulated in long-terms. We are also continuously developing new products to meet customers' specific needs.

High quality products with reasonable price is our always goal.

## 940nm 120W High Power Fiber Coupled Diode Laser RPK940EN1RN-120.0W (Customized Product)

Specifications(25°C)		Symbol	Unit	RPK940EN1RN-120.0W		
				Minimum	Typical	Maximum
Optical Data <sup>(1)</sup>	CW-Output Power	$P_o$	W	120	-	-
	Center Wavelength	$\lambda_c$	nm	940±5		
	Spectral Width (FWHM)	$\Delta\lambda$	nm	6		
	Wavelength Shift with Temperature	$\Delta\lambda/\Delta T$	nm/°C	-	0.3	-
	Wavelength Shift with Current	$\Delta\lambda/\Delta A$	nm/A	-	0.6	-
	Spot ratio 0.16/0.22	NA	%	90	-	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	49	-
	Threshold Current	$I_{th}$	A	-	0.9	-
	Operating Current	$I_{op}$	A	-	14	14.5
	Operating Voltage	$V_{op}$	V	-	17.7	20
	Slope Efficiency	$\eta$	W/A	-	8.3	-
Fiber Data	Core Diameter	$D_{core}$	μm	-	106.5	-
	Cladding Diameter	$D_{clad}$	μm	-	125	-
	Fiber Loose Tubing Diameter	-	mm	0.9		
	Numerical Aperture	NA	-	-	0.22	-
	Total Fiber Length	$L_f$	m	-	2	-
	Minimum Bending Radius	-	mm	50	-	-
	Fiber Termination	-	-	-	FF	-
Feedback Isolation	Wavelength Range	$\lambda$	nm	1020~1200		
	Isolation	-	dB	-	30	-
Others	ESD	$V_{esd}$	V	-	-	500
	Storage Temperature <sup>(2)</sup>	$T_{st}$	°C	-20	-	70
	Lead Soldering Temperature	$T_{is}$	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Temperature <sup>(3)</sup>	$T_{op}$	°C	15	-	35
	Relative Humidity	RH	%	15	-	75

(1) Data measured under operation output at 120W@25°C.

(2) A non-condensing environment is required for operation and storage.

(3) Operating temperature defined by the package case. Acceptable operating range is 15°C~35°C, but performance may vary.

