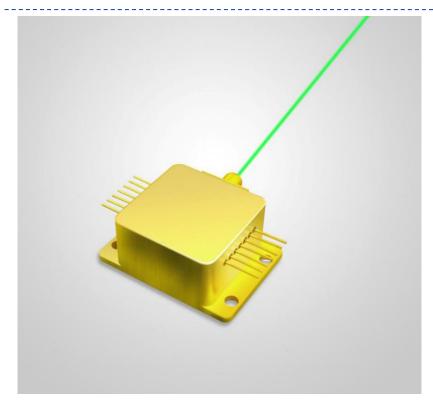


940nm 10W Multi-Function Detachable Diode Laser RPK940-10.00W-10522-SM



Features:

- 10W output power
- 940nm wavelength
- Standard fiber coupling for 200µm/ 0.22NA
- Customer options:
 Red or green aiming beam
 Power PD
 Thermistor
 TEC cooler

Applications:

- Medical use
- Material processing

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 10W Multi-Function Detachable Diode Laser

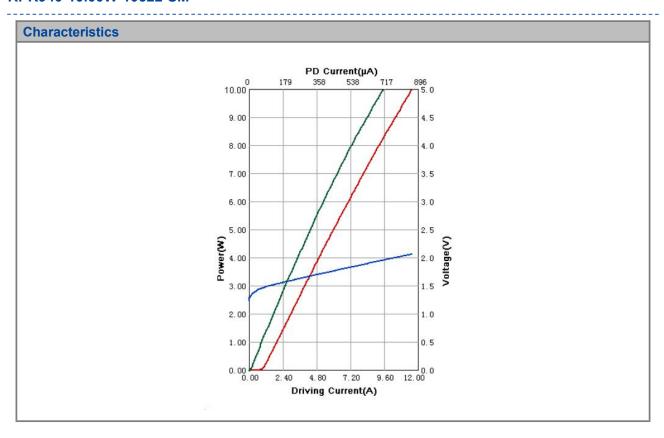
RPK940-10.00W-10522-SM

	0			RPK940-10.00W-10522-SM		
Specifications(25℃)		Symbol	Unit	Minimum	Typical	Maximum
	CW Output Power	Po	W	10	-	-
	Threshold current	I _{th}	А	-	1	-
Parameter (1)	Operating current	lop	А	-	-	13
	Operating voltage	V _{op}	V	-	-	2
	Reverse Voltage	V_{re}	V	-	2.5	-
	Slope Efficiency	η	W/A	-	1	-
	Electrical-to-Optical Efficiency	PE	%	40	-	-
	Center wavelength	λς	nm	930	-	950
	Spectral width(FWHM)	δ_{λ}	nm	-	6	-
	Wavelength Shift with Temperature	-	nm/°C	-	0.3	-
	Buffer diameter	D _{buf}	μm	-	400	-
Fiber Data	Cladding diameter	D _{clad}	μm	-	220	-
	Core diameter	D _{core}	μm	-	200	-
	Numeric aperture	NA	-	-	0.22	-
	ESD	V_{esd}	V	-	-	500
Others	Storage temperature	T _{stg}	$^{\circ}$	-20	-	70
	Lead Soldering Temp	T _{Is}	°C	-	-	260
Others	Lead Soldering Time	t	sec	-	-	10
	Operating case temperature	T _{op}	°C	15	-	35
	Relative Humidity	RH	%	15	-	75
PD Data	Current	I _{mo}	μA	200	-	2000
Thermistor	-	Rt	(K Ω)/β(25°C)	-	10±3%/3477	-
	Output Power	Pa	mW	-	2	-
Aiming Beam	Wavelength	la	nm	630	-	643
Data	Voltage	Va	V	-	2.2	-
	Current	la	mA	-	45	65
TEC Data	Max. Current	-	А	-	6	-
I LO Dala	Max. Voltage	-	V	-	9.8	-

⁽¹⁾ Data measured under operation output at 10W.



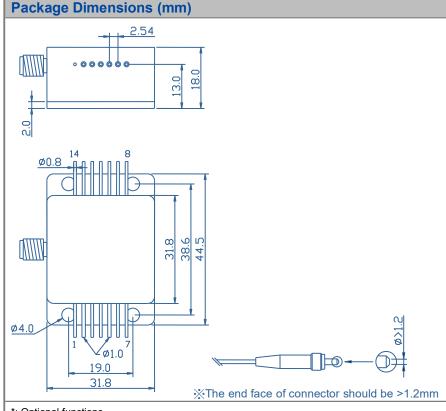
940nm 10W Multi-Function Detachable Diode Laser RPK940-10.00W-10522-SM





940nm 10W Multi-Function Detachable Diode Laser

RPK940-10.00W-10522-SM



Pins	Function		
1	Case		
2	LD (+)		
3	Thermistor*		
4	Thermistor*		
5	LD (-)		
6	PD (P)*		
7	PD (N)*		
8	TEC (-)*		
9	FCD PD (P)*		
10	FCD LED (-)*		
11	FCD LED (+)* FCD PD (N)*		
12	Aiming Beam LD(+5V)*		
13	Aiming Beam LD (0V)*		
14	TEC (+)		

OPERATING NOTES

- ◆ Avoid eye exposure to direct or scattered radiation.
- ◆ ESD precautions must be taken.
- ◆ Please connect pins to wires by solder instead of using socket when operation current is higher than 6A.
- ◆ Soldering point should be close to the root of the pins. Soldering temperature should be lower than 260°C and time shorter than 10 second.
- ◆ Use constant current power supply. Avoid surge current.
- ◆ Laser diode must be used according to the specifications.
- ◆ Laser diode must work with good cooling.
- ♦ Operation temperature is 15 °C ~ 35 °C.
- ♦ Storage: -20°C ~ +70°C, all pins short-circuit.



^{*:} Optional functions.