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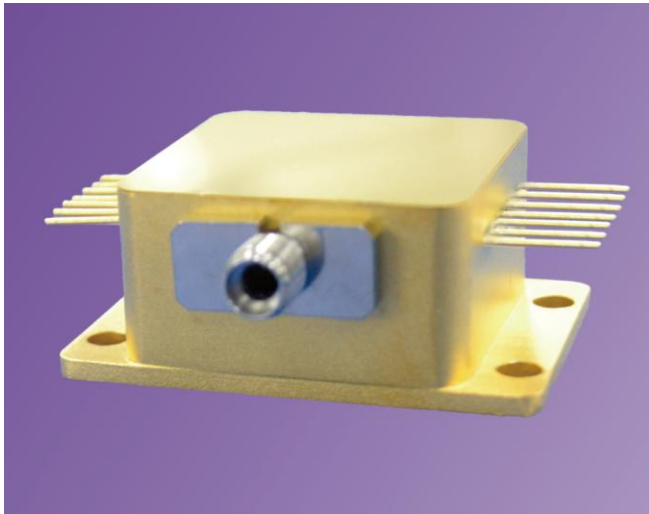
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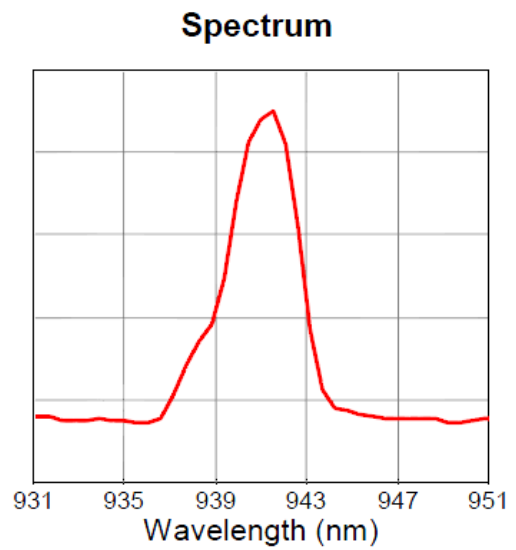
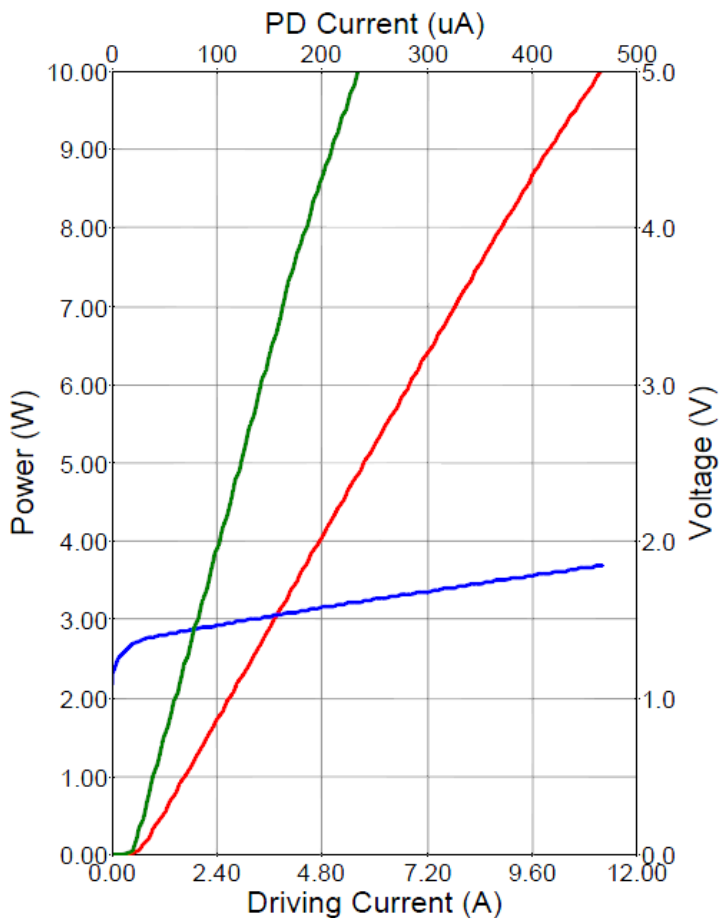
## 940nm 10W Laser Diode Module

R940±10-10WD-14HHL-PTFS



Feature
Output power: 10W
Wavelength: 940±10nm
Fiber core: 200 μm, 0.22NA
Aiming beam: 650nm
Application
Medical use
Material processing

### 940nm 10W Characteristics (25°C)



## Typical Device Performance(25°C)

Parameter		Symbol	Typical Value	Unit
			R940±10-10WD-14HHL-PTFS	
Optical	CW Output Power	$P_{op}$	10	W
	Center Wavelength	$\lambda_c$	940±10	nm
	Spectral Width	$\Delta\lambda$	<6	nm
	Temperature drift of wavelength	$\Delta\lambda / \Delta T$	0.3	nm/°C
Aiming Beam	Output Power	$P_a$	2	mW
	Wavelength	$\lambda_a$	650±10	nm
	Voltage	$V_a$	5.0	V
Electrical	Threshold Current	$I_{th}$	0.70	A
	Operating Current	$I_{op}$	12	A
	Operating Voltage	$V_{op}$	1.90	V
	Slope Efficiency	$\eta_{es}$	0.8-0.9	W/A
	PD Current	$I_{PD}$	<3000	μA
	Thermistor	$R_t$	10±5%/3450	kΩ/β(25°C)
	TEC Max Current	$I_{tmax}$	6.0	A
	TEC Max Voltage	$V_{tmax}$	9.8	V
Fiber	Fiber Core Diameter	$d_{core}$	200	μm
	Connector	-	SMA905	-

## Other Parameters

Parameter	Operating Temperature /°C	Operating Relative Humidity /%	Storage Temperature /°C	Storage Relative Humidity /%	Lead Soldering Temperature(max/°C)
Min	10	-	-20	-	-
Max	30	75	80	70	250(10Sec.)

## Package Dimensions (mm)

Pin	Function	Pin	Function
1	Case	8	TEC(-)
2	Laser(+)	9	FCD PD(P)
3	Thermistor	10	FCD LED(-)
4	Thermistor	11	FCD LED(+);FCD PD(N)
5	Laser(-)	12	Aiming Beam LD(+);[DC 5V]
6	PD(P)	13	Aiming Beam LD(-);[GND]
7	PD(N)	14	TEC(+)

