



Electro Optical Components, Inc.

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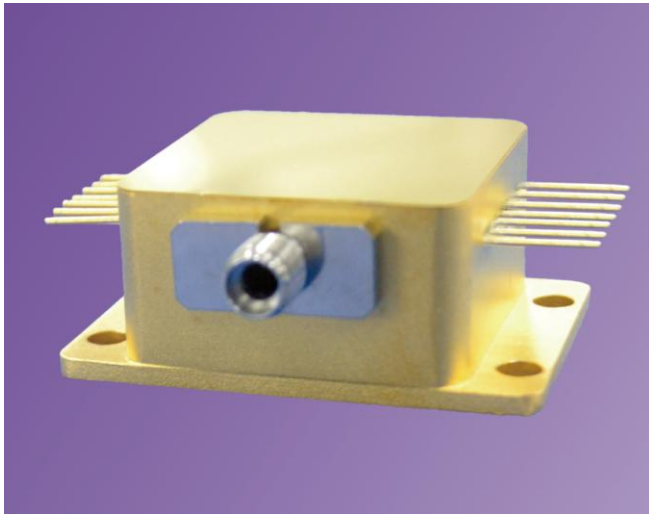
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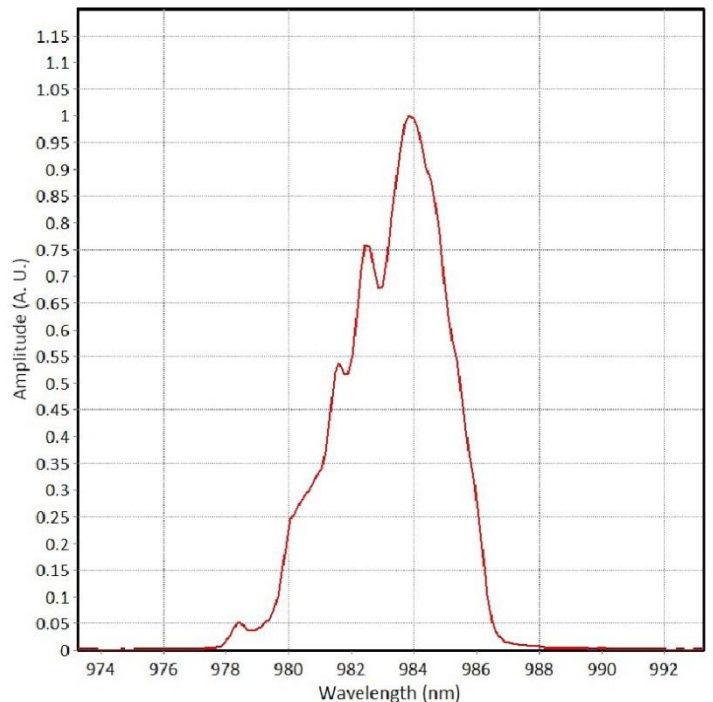
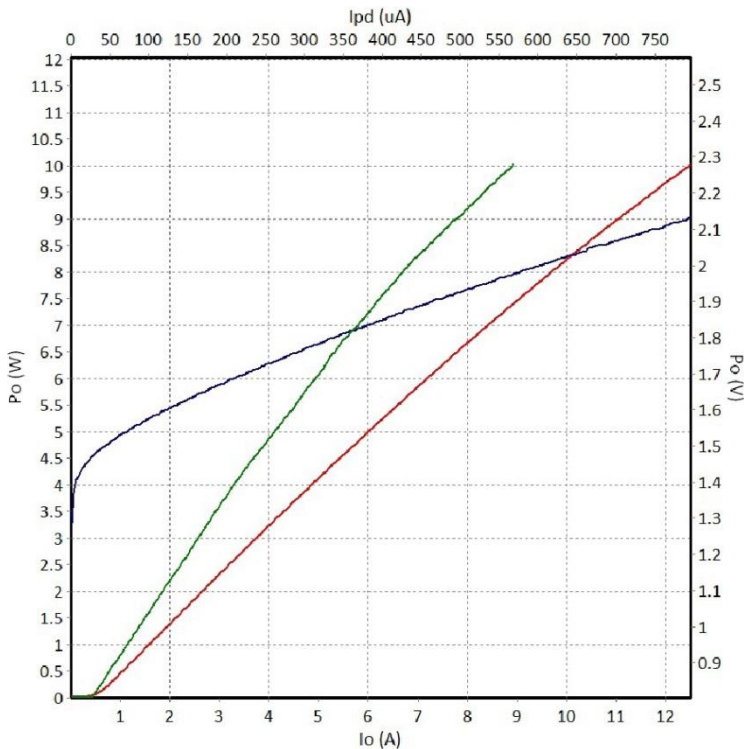
980nm 10W Laser Diode Module

R980±10-10WD-14HHL-PTFS



Feature
Output power: 10W
Wavelength: 980±10nm
Fiber core: 200 μm, 0.22 NA
Aiming beam: 650nm
Application
Medical use
Material processing

980nm 10W Characteristics (25°C)



Typical Device Performance(25°C)

Parameter		Symbol	Typical Value	Unit
			R980±10-10WD-14HHL-PTFS	
Optical	CW Output Power	P_{op}	10	W
	Center Wavelength	λ_c	980±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	λ_a	650±10	nm
	Voltage	V_a	2.2, 5.0	V
Electrical	Threshold Current	I_{th}	0.56	A
	Operating Current	I_{op}	12.39	A
	Operating Voltage	V_{op}	2.12	V
	Slope Efficiency	η_{es}	0.88	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(+)

