

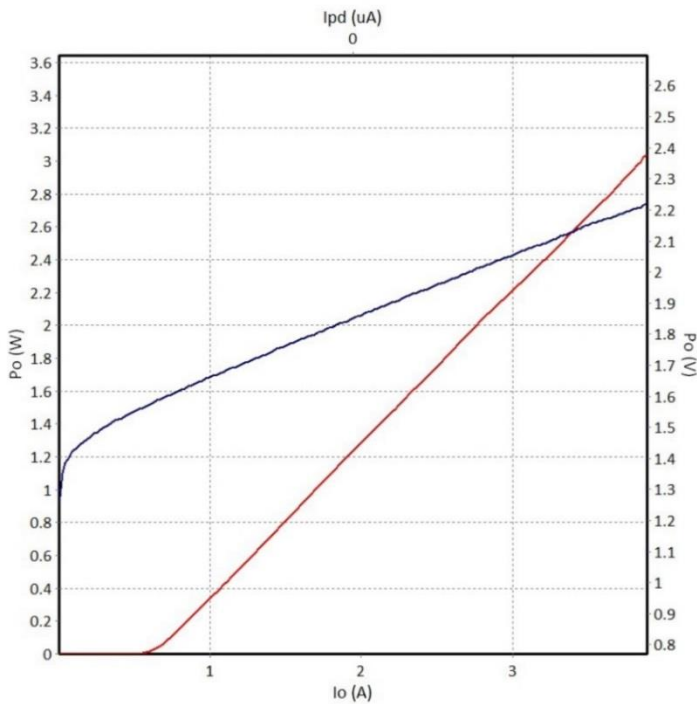
980nm 3W Laser Diode Module

R980±10-3WD-8BULT-PFS

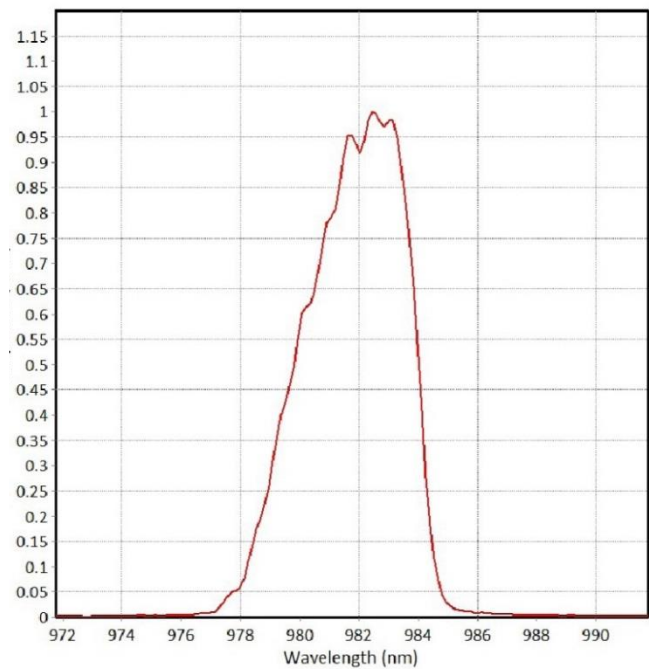


Feature
Output power: 3W
Wavelength: 980±10nm
Fiber core: 200 μm
Numerical aperture:0.22NA
Aiming beam: 650nm
Application
Medical use

980nm 3mW Characteristics (25°C)



980nm P-I-V graph



980nm Laser spectrum

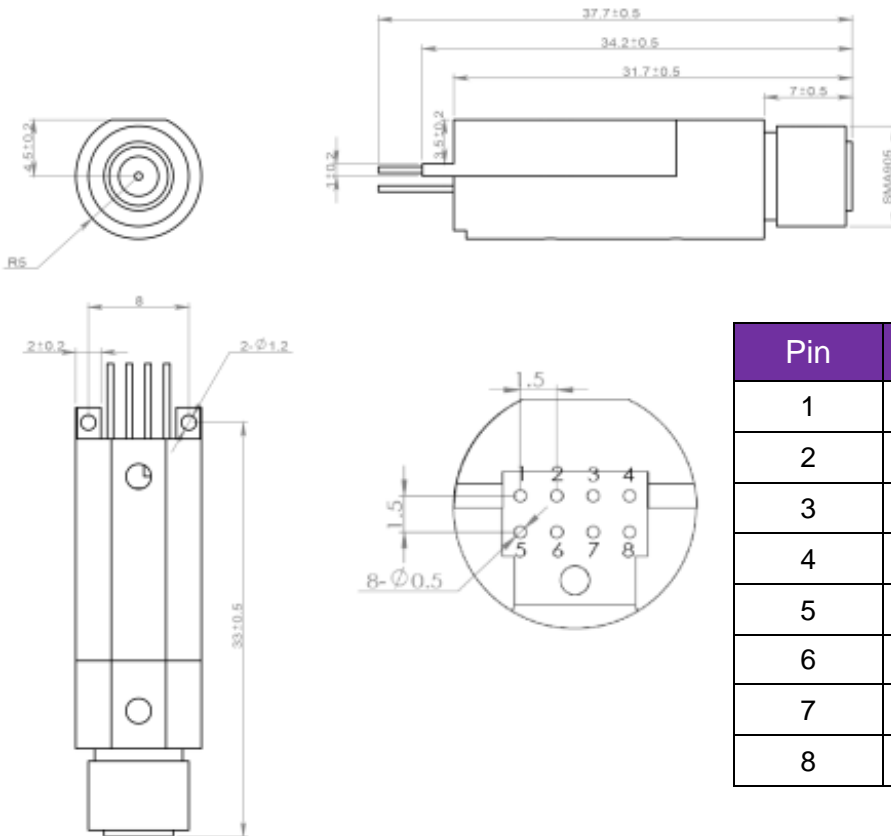
Parameters

Parameter	Operating Temperature /°C	Operating Relative Humidity /%	Storage Temperature /°C	Storage Relative Humidity /%	Lead Soldering Temperature (max/°C)
Min	10	-	-20	-	-
Max	30	75	70	90	250(10Sec.)

Typical Device Performance(25°C)

Parameter	Symbol	Typical Value	Unit	
		R980±10-3WD-8BULT-PFS		
Optical	CW Output Power	P_{op}	3	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	V
Electrical	Threshold Current	I_{th}	0.64	A
	Operating Current	I_{op}	3.85	A
	Operating Voltage	V_{op}	2.2	V
	Slope Efficiency	η_{es}	0.93	W/A
	Thermistor	R_t	10±5%/3450	kΩ/β(25°C)
Fiber	Fiber Core Diameter	d_{core}	200	μm
	Connector	-	SMA905	-

Package Dimensions (mm)



Pin	Function
1	FCD (+)
2	Thermistor
3	Aiming beam (-)
4	Aiming beam (+)
5	Thermistor
6	Laser (+)
7	FCD (-); Case
8	Laser (-)