

980nm 15W Detachable Laser Diode Module

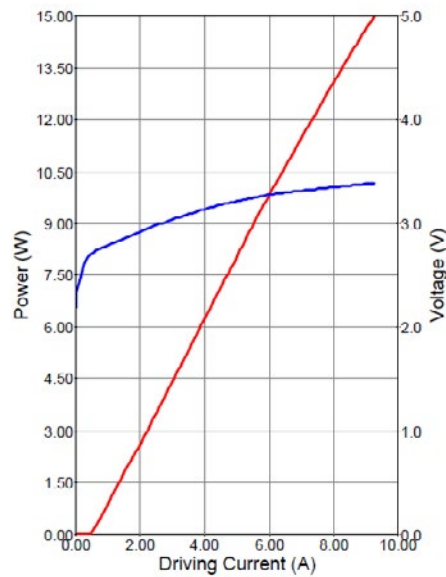
Function: PD, Thermistor, Aiming beam, Fiber detector

G980-15WD-R4-PFS



Function
Output power: 15W
Wavelength: 980±10nm
Fiber coupling for: 200 μm 0.22NA
PD, Thermistor, Aiming beam, Fiber detector
Application
Medical Use

980nm 15W Characteristics (25°C)



Typical Device Performance(25°C)

Parameter	Symbol	Typical Value	单位	
		G980-15WD-R4-PFS		
Optical	CW Output Power	P_{op}	15	W
	Center Wavelength	λ_c	980±10	nm
	Spectral Width (90% of Power)	$\Delta\lambda$	<6.0	nm
	Wavelength Shift with Temperature	$\Delta\lambda / \Delta T$	0.3	nm/°C
Electrical	Threshold Current	I_{th}	0.5	A
	Operating Current	I_{op}	9.5	A
	Operating Voltage	V_{op}	3.4	V
	Slope Efficiency	η_{es}	1.7	W/A
	Power Conversion Efficiency	η_{ep}	46	%
Connector	Design For Fiber Core Diameter	d_{core}	200	μm
	Design For Numerical Aperture	NA	0.22	-
	Connector	-	SMA905	-

Other Parameters

Parameter	Operating Temperature /°C	Operating Relative Humidity /%	Storage Temperature /°C	Storage Relative Humidity /%	Lead Soldering Temperature 10s max/°C
Min	10	-	-20	-	-
Max	40	75	80	90	250

Package Dimensions (mm)

Pin	Function	Pin	Function
1	Laser(+)	6	Aiming Beam +5V PD(N)
2	Laser(-)	7	Aiming Beam 0V
3	Fiber Detector LED(+)	8	PD(P)
4	Fiber Detector LED(-) Fiber Detector PD(N)	9	Thermistor
5	Fiber Detector PD(P)	10	Thermistor

