

650nm 5~50mW Laser Diode Module

R650nm-5mWF-03BCK-S

R650nm-10mWF-03BCK-S

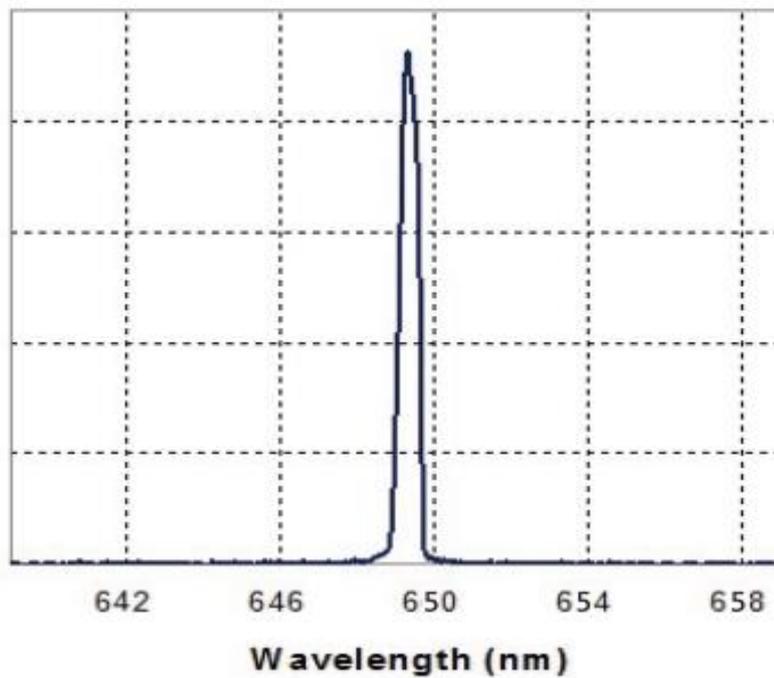
R650nm-30mWF-03BCK-S

R650nm-50mWF-03BCK-S



Feature
Output power: 5mW,10mW,30mW,50mW
Wavelength: 650±10nm
Fiber core : 4μm ,0.13NA
Application
Aiming beam
Medical use
Holographic

650nm Characteristics (25°C, 50mW)



Typical Device Performance(25°C)

Parameter	Symbol	Typical Value				Unit	
		R650-5mWF-03BCK-S	R650-10mWF-03BCK-S	R650-30mWF-03BCK-S	R650-50mWF-03BCK-S		
Optical	CW Output Power	Pop	5	10	30	50	mW
	Center Wavelength	λ_c	650±5	650±5	650±5	650±5	nm
	Spectral Width	$\Delta\lambda$	≤3				nm
	Temperature drift of wavelength	$\Delta\lambda/\Delta T$	0.2				nm/°C
Electrical	Threshold Current	I _{th}	35	35	55	85	mA
	Operating Current	I _{op}	55	70	150	250	mA
	Operating Voltage	V _{op}	2.2~2.4				V
	TEC Max Current	I _t	-	-	-	1.8	A
	TEC Max Voltage	V _t	-	-	-	3.2	V
	Thermistor	R _t	-	-	-	10±5%/3477	(KΩ) /β
	Slope Efficiency	η_{es}	0.3	0.3	0.3	0.3	mW/mA
Fiber	Fiber Core	d _{core}	4				μm
	Fiber Cladding Diameter	d _{clad}	125				μm
	Fiber Buffer Diameter	d _{buffer}	250				μm
	Numerical Aperture	NA	0.13				-
	Connector	L	FC/PC,ST,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	70	90	250(10Sec.)

Package Dimensions (mm)

PIN	Function
1	Laser (-)
2	Laser (+)
3	-

