



Electro Optical Components, Inc.

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SM 785nm 100mW Wavelength-stabilized Laser Diode Modules



Key Features

- Output power: 100mW
- Wavelength: 785 ± 0.5 nm
- Free space output
- Fiber pigtailed output available

Application

Spectrum Biology

Typical Performance (25°C)

具体参数		Typical Value
		R785±0.5-100mWW-04BCK-S-G
Optical	CW Output Power P_{op} (mW)	100
	Center Wavelength (nm)	785 ± 0.5
	Spectral Width $\Delta \lambda$ (nm)	≤ 0.1
	Temperature drift of Wavelength $\Delta \lambda / \Delta T$ (nm/°C)	≤ 0.01
Electrical	Threshold Current I_{th} (A)	0.05
	Operating Current I_{op} (A)	0.12
	Operating Voltage V_{op} (V)	2
	Slope Efficiency η_{es} (W/A)	0.85
	PD Parameter I_{PD} (μA)	-
	Thermistor R_t ($k\Omega / \beta$ (25°C))	$10 \pm 5\% / 3450$

Other Parameters

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

Package Dimensions (mm)

Pin	Function
1	LD(-)
2	Thermistor
3	LD(+)
4	Thermistor

