

## IQ2C3(635-5)G48B

SKU / Spec Number: E146

### DESCRIPTION

This Instrument Quality 635nm,3mW laser is designed specifically to address the needs of high-end OEM applications requiring superior optical quality and ultra-stable temperatures, wavelengths & output powers while maintaining a circularized beam produced via anamorphic correcting prisms. IQ series laser modules incorporate quality glass lenses to achieve optical clarity at up to 3000 mA of drive current. All IQ lasers feature a precision current source and a PID temperature control loop that allows the unit to operate optimally at 8VDC at a wide temperature range of 15-35 C. This creates less excess heat within the laser module, increasing diode lifetime, efficiency and reliability.

### SPECIFICATIONS

Wavelength (nm)	635	Beam Divergence (1/e2)	>1mRad
Laser Safety Class	Class 4	Polarization Ratio	Typ >100:1
Wavelength Tolerance	+/-10nm	Polarization State	Linear
Power	3	Temperature Stability (?C)	0.05
Power Units	mW	Beam Pointing Stability	<10µRad/°C
Output Power Stability @ 25c	0.1	Operating Mode	CW
Pwr Stability Over Temp Rng	<3%	Operating Voltage	5
Noise RMS(10Hz-5MHz)	<0.1%	Operating Voltage Units	VDC
Color	Red	Operating Temperature Range	5 - 40°C
Beam Shape	Circular	Dimensions	1.50" x 7.49" (38mm x 191mm)
Default Optical Configuration	Collimated	Product Weight (lbs.)	0.81
User Focusable	No	Platform	IQ2

Product Page: <https://www.powertechnology.com/our-products/iq2c3635-5g48b/>

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