

IQ1C05(450-80)G48A

SKU / Spec Number: E084

DESCRIPTION

This Instrument Quality 450nm,5mW laser is designed specifically to address the needs of high-end OEM applications requiring superior optical quality and ultra-stable temperatures, wavelengths & output powers. IQ series laser modules incorporate quality glass lenses to achieve optical clarity at up to 3000 mA of drive current. For added beam quality, users may choose an IQ module with beam circularization. All IQ lasers feature a precision currentsource 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)	450	Transverse Mode Structure	Single
Laser Safety Class	Class 3a	Polarization Ratio	>100:1
Wavelength Tolerance	5nm	Polarization State	Linear
Certifications	CDRH & IEC Laser Safety	Beam Pointing Stability	<6mRad/°C
Power	5	Operating Mode	CW
Warranty	1 Year	Operating Voltage	8
Power Units	mW	Operating Voltage Units	VDC
Spectral Width	<20nm	Max Operating Current (mA)	2500
Color	Blue	Operating Current Units	mA
Beam Shape	Elliptical	Operating Temperature Range	15 - 35
Default Optical Configuration	Collimated	Dimensions	6.05" x 1.50" (153.67mm x 26.67mm)
User Focusable	Yes	Product Weight (lbs.)	0.56
Beam Divergence (1/e2)	< 1.0	Platform	IQ1

Product Page: <https://www.powertechnology.com/our-products/iq1c05450-80g48a/>

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