CK05(450-80)G48A

SKU / Spec Number: E005

DESCRIPTION

The instrumental quality CK laser module has been designed specifically to address the needs of high-end OEM applications requiring superior optical quality and ultra-stable wavelength and output powers. The CK features an onboard microprocessor allowing for advanced integration and user control. To promote stability of wavelength and output powers, a precision current source as well as a precision temperature control has been incorporated in the module. The low operating voltage helps to create less heat waste increasing diode lifetime, efficiency, and reliability. The mechanical design of the CK allows users to replace more expensive lasers without sacrificing performance.

SPECIFICATIONS

Wavelength (nm)	450
Wavelength Tolerance	5nm
Certifications	CDRH & IEC Laser Safety
Power	5
Warranty	1 Year
Power Units	mW
Pwr Stability Over Temp Rng	<1% / 8hr
Noise RMS (10Hz – 100MHz)	<0.5%
Color	Blue
Beam Shape	Elliptical
Default Optical Configuration	Focused at 5 feet
User Focusable	Yes
Beam Divergence (1/e2)	>1mRad
Spatial Mode	Single
Transverse Mode Structure	TEMoo

Polarization Ratio	>100:1
Polarization State	Linear
Beam Pointing Stability	<5µRad/°C
Operating Mode	CW, Digital, or Analog Modulation
Modulation Signal	Analog / Digital
Modulation Input Impedance	Digital 50 Ohms AC / Analog 500 Ohms
Max Modulation Rate Analog	0.8nS Min / 2nS Typ / 6nS Max (diode dependent)
Rise/fall times analog (ns)	10nS Min / 24nS Typ / 200nS Max (diode dependent)
Propagation Delay (ns)	Digital 30-50ns / Analog 20-40ns
Operating Voltage	8
Operating Voltage Units	VDC
Max Operating Current (mA)	4000 max/ 800 typical
Operating Current Units	mA
Product Weight (lbs.)	0.65
Platform	CK