

Specifications

Premier Laser Diode Detector

Mechanical Information		
Mass (grams)	17	
Dimensions (mm)	15 x 47	
Housing	Anodised Aluminium	
Isolated Body	Yes	
Lead Length (mm)	500 (Other lead lengths available on request)	
Connector Type	JST PHR4 4pin	
Optical Information		
Diode Power (mW)	1 to 150 *	
Typical Power Stability over Temperature range (%)	≤1% #	
Wavelength (nm)	520 to 980	
Beam Size at Aperture	*	
Beam Divergence	*	
Bore Sighting (mrad)	≤10 (Note 1)	
Pointing Stability vs. Temperature	< 0.01 mrad/°C	
Environmental Information		
Operating Case Temperature (°C)	-10 to +45 *	
Storage Temperature (°C)	-10 to +80	
Operating Humidity (%RH)	90 (non condensing)	
MTTF @ 25°C (hrs)	>30,000*	
Electrical Specifications		
Input Voltage (Vdc) (Red Lead - Pin 1)	Red & IR Models	5 Vdc ±5% (Note 2)
	Green Models	10 ±5%
Input Voltage (Vdc) (Black Lead - Pin 2)		0 Vdc
Operating Current Drive Circuit (mA)		4 (Typical)
Operating Current (mA)		Varies with laser diode type and temperature
Reverse Polarity Protection		Yes
Rise & Fall Times * (µs)		<0.5
Frequency Range		DC to 1MHz
Linear Control Voltage Range (Yellow Lead - Pin 3) LC Version		N/A
Modulation Voltage Range (Yellow Lead - Pin 3)		TTL Low = Off TTL High = On
TTL Enable (Blue Lead - Pin 4)		<0.4 = Off >2V = On
Earth (Yellow/Green Lead - Pin 4)		N/A

NOTES

Varies with laser diode type and output power. Data based on Premier 650nm 1mW C2 Lens

* Varies with laser diode type

Note 1 - (factory set focus

Note 2 - Some LC models may run on 3.3 to 5 volts. Please contact us for availability

Note 3 - Measure with 90% modulation depth sine wave to -3dB

All specifications are typical (25°C)