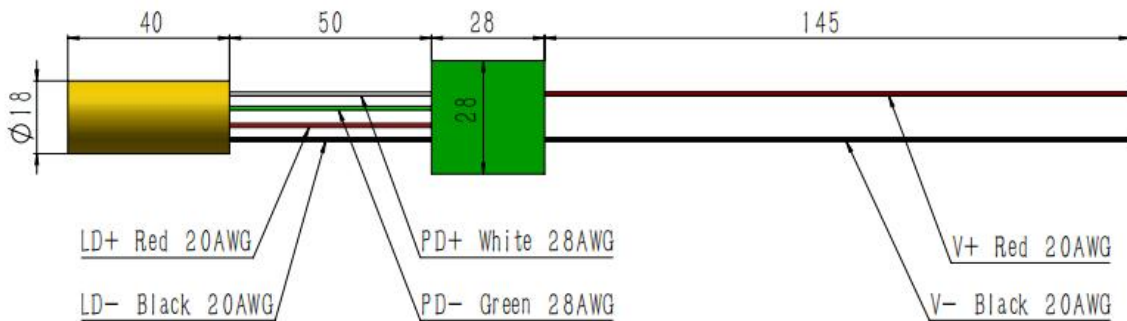


Y574D001-18x40-1.0

Features

- DPSS Laser
- Yellow Laser
- 1mW@574nm
- Fast Rise Time

Dimensions (Unit: mm)



Specifications

Model Number		Y574D001-18x40-1.0		
Mechanical Specifications		Min	Typ	Max
Laser Head	Diameter (mm)	17.95	-	17.98
	Length (mm)	-	-	40
	Weight (g)	-	-	200
Housing Material		Brass with gold-plating		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		571	574	577
Output Power (mW) at 25°C		-	0.8	1
RMS Power Stability at const. Temperature ⁽¹⁾		-	+/- 5%	+/- 10%
Output Power Mode		CW		
Laser Class		2		

⁽¹⁾ after max. 3 minutes

Beam Specifications		Min	Typ	Max
Beam Divergence (mrad) ⁽¹⁾		-	1.0	1.5
Beam Alignment Tolerance	Position (Δr , mm)	-	-	0.5
	Off-axis Angle (mrad)	-	35	60
Beam Diameter at output window (mm)		-	0.5	-
Beam Diameter at 10m (mm)		-	12	15
Beam Roundness		-	70%	-
Beam Mode Longitude		Multi		
Beam Mode Transverse		TEM10		
Polarization Ratio (Linear)		100:1	-	-
Residual IR		-	-	3%
Electrical Specifications		Min	Typ	Max
Power Type		APC		
PCB Voltage (DC, V)		-	7.5	-
PCB Operating Current (mA) at 7.5V		-	70	100
Power Consumption (W) at 25°C		-	0.53	0.75
Housing Isolation		No		
ESD protection		No		
Wire Length (mm)		145 (+/-10)		
Wire Type ⁽²⁾		20AWG / 28AWG		
Reliability		Min	Typ	Max
Operating Case Temperature Range (°C)		20	25	30
Rise Time (s)		-	-	0.2
Storage Temperature (°C)		-20	-	60
Environmental Humidity (RH, %)		5	-	85
Lifetime (hours) (MTTF at 25°C)		5,000	-	-
RoHS Compliance Declaration		Yes		

⁽¹⁾ Full Angle (1/e²)

⁽²⁾ 20AWG for LD wires. 28AWG for PD wires