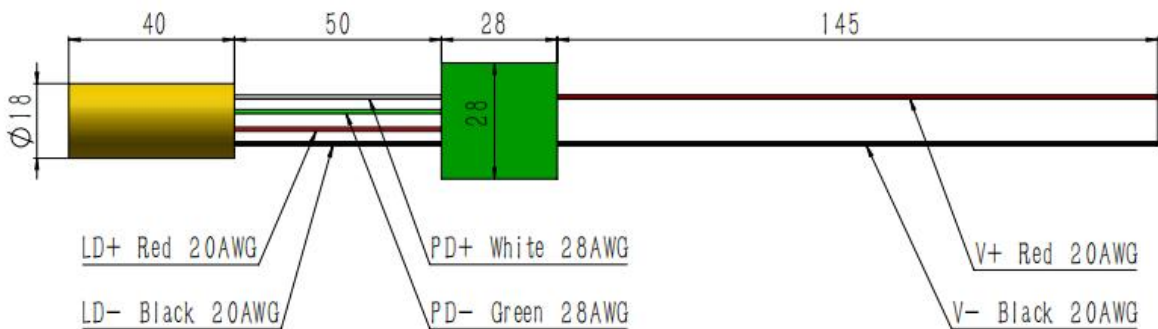


## Y575D001-18x40-1.0

### Features

- DPSS Laser
- Yellow Laser
- 1mW@575nm
- Fast Rise Time

### Dimensions (Unit: mm)



### Specifications

Model Number		Y575D001-18x40-1.0		
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	575	578
Output Power (mW) at 25°C		-	0.8	1
RMS Power Stability at const. Temperature <sup>(1)</sup>		-	+/- 5%	+/- 10%
Output Power Mode		CW		
Laser Class		3B		

<sup>(1)</sup> after max. 3 minutes

<b>Beam Specifications</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
Beam Divergence (mrad) <sup>(1)</sup>		-	1.0	2
Beam Alignment Tolerance	Position ( $\Delta r$ , mm)	-	-	0.5
	Off-axis Angle (mrad)	-	35	60
Beam Diameter at Output Window (mm)		-	0.5	-
Beam Diameter at 5m (mm)		-	8	10
Beam Roundness		-	70%	-
Beam Mode Longitude		Multi		
Beam Mode Transverse		TEM10		
Polarization Ratio (Linear)		100:1	-	-
Residual IR		-	-	3%
<b>Electrical Specifications</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
Power Type		APC		
PCB Voltage (DC, V)		-	3	5
PCB Operating Current (mA) at 3V		-	200	300
Power Consumption (W) at 25°C		-	0.6	0.9
Housing Isolation		No		
ESD protection		No		
Wire Length (mm)		145 (+/-10)		
Wire Type <sup>(2)</sup>		20AWG / 28AWG		
<b>Reliability</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
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		

<sup>(1)</sup> Full Angle (1/e<sup>2</sup>)

<sup>(2)</sup> 20AWG for LD wires. 28AWG for PD wires