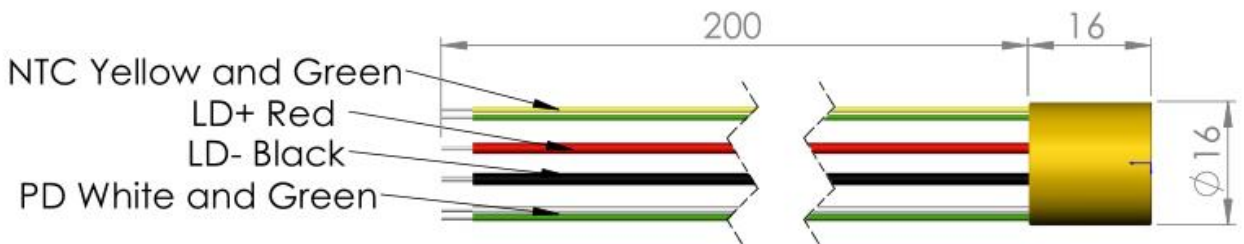


## Y561D010-16x16-15

### Features

- DPSS Laser
- 10mW@561nm
- Fast Rise Time
- High Reliability

### Dimensions (Unit: mm)



### Specifications

Model Number		Y561D010-16x16-15		
Mechanical Specifications		Min	Typ	Max
Laser Head	Diameter (mm)	15.95	-	16.05
	Length (mm)	-	-	16
	Weight (g)	-	-	100
Housing Material		Brass with gold-plating		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		559	561	563
Output Power (mW) at T°C <sup>(1)</sup>		8	10	-
Power Stability at T°C <sup>(2)</sup>		-	+/- 3%	+/- 5%
Output Power Mode		CW		
Laser Class		3B		

(1) T is optimum operating temperature of laser module

(2) RMS after max. 3 minutes,

<b>Beam Specifications</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
Beam Divergence (mrad) <sup>(1)</sup>		-	15	-
Beam Waist (μm)		-	-	200
Beam Alignment Tolerance	Position (Δr, mm)	-	-	0.5
	Off-axis Angle (mrad)	-	35	60
Beam Diameter at Output Window (mm)		-	0.5	-
Beam Roundness		-	70%	-
Beam Mode Longitude		Multi		
Beam Mode Transverse		TEM <sub>00</sub>		
Polarization Ratio (Linear)		100:1	-	-
Residual IR		-	-	3%
<b>Electrical Specifications</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
Power Type		APC		
LD Voltage (DC, V)		1.8	2	2.3
LD Operating Current (mA) at 2V		350	400	500
Thermistor Constants		A = 2.231e <sup>-3</sup> B = 4.694e <sup>-5</sup> C = 0.884e <sup>-6</sup>		
Thermistor Resistance		6.6KΩ@35°C    8.2KΩ@30°C 10.0KΩ@25°C    12.3KΩ@20°C 16.4KΩ@15°C    18.5KΩ@10°C		
Power Consumption (W) at T°C <sup>(3)</sup>		-	0.8	1.2
PD Feedback Current (μA)		-	200	-
Housing Isolation		No		
ESD protection		No		
Wire Length (mm) <sup>(2)</sup>		200 (+/-50)		
Wire Type <sup>(2)</sup>		20AWG / 28AWG		
<b>Reliability</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
Operating Case Temperature Range (°C) <sup>(3)</sup>		T-1	T	T+1
Rise Time (s) at 0.5A		-	0.05	0.2
Storage Temperature (°C)		0	-	40
Environmental Humidity (RH, %)		5	-	85
Lifetime (hours) (MTTF at 25°C)		5,000	-	-
RoHS Compliance Declaration		Yes		

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

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

(3) T is optimum operating temperature of laser module