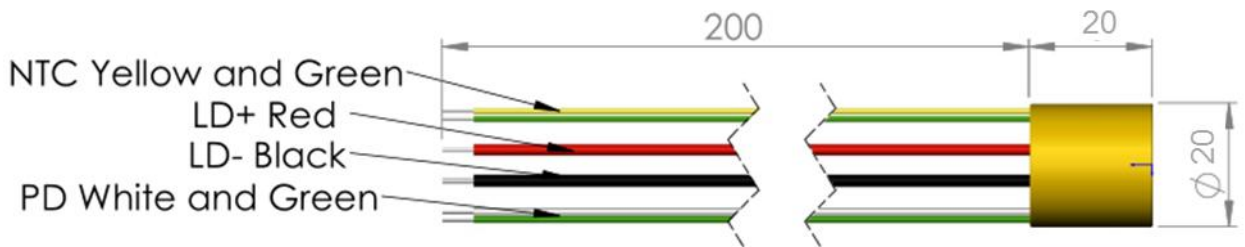


Y571D020-20x20-20

Features

- DPSS Laser
- 10mW@571nm
- Fast Rise Time
- High Reliability

Dimensions (Unit: mm)



Specifications

Model Number		Y571D020-20x20-20		
Mechanical Specifications		Min	Typ	Max
Laser Head	Diameter (mm)	19.95	-	20.05
	Length (mm)	-	-	20
	Weight (g)	-	-	100
Housing Material		Brass with gold-plating		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		570	572	574
Output Power (mW) at T°C ⁽¹⁾		15	20	-
Power Stability at T°C ⁽²⁾		-	+/- 5%	+/- 10%
Output Power Mode		CW		
Laser Class		3B		

⁽¹⁾ T is optimum operating temperature of laser module

⁽²⁾ RMS after max. 3 minutes

Beam Specifications		Min	Typ	Max
Beam Divergence (mrad) ⁽¹⁾		-	17	20
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 ₁₀		
Polarization Ratio (Linear)		100:1	-	-
Residual IR		-	-	3%
Electrical Specifications		Min	Typ	Max
Power Type		APC		
LD Voltage (DC, V)		1.8	2	2.3
LD Operating Current (mA) at 2V			1000	1200
Thermistor Constants		A = 2.231e ⁻³ B = 4.694e ⁻⁵ C = 0.884e ⁻⁶		
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 ⁽³⁾		-	0.8	1.2
PD Feedback Current (μA)		-	350	400
Housing Isolation		No		
ESD protection		No		
Wire Length (mm) ⁽²⁾		200 (+/-50)		
Wire Type ⁽²⁾		20AWG / 28AWG		
Reliability		Min	Typ	Max
Operating Case Temperature Range (°C) ⁽³⁾		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/e²)

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

(3) T is optimum operating temperature of laser module