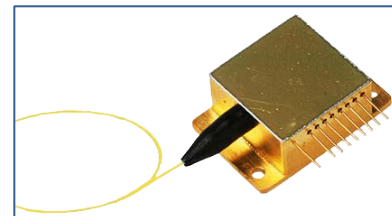




## SPLXT445-3.5W-200M

- Blue High Power Laser Diode
- 450 nm, 3.5 W
- 200  $\mu$ m Fiber
- Multi Mode
- 9-Pin HHL Package
- TEC + Thermistor



## Description

**SPLT445-3.5W-200M** is a blue multi mode laser diode in 9-pin HHL package, typically emitting at 450 nm with an output power of 3.5 W. It features integrated thermistor and TEC (thermo electric cooling). It comes with **200  $\mu$ m multi mode fiber** and FC/PC connector, without monitor photodiode. **SPLT445-3.5W-200M** is widely used in the medical field.

## Maximum Rating ( $T_{CASE} = 25^{\circ}C$ )

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Current	$I_R$		80	mA
Operating Temperature	$T_{OPR}$	0	+ 60	$^{\circ}C$
Storage Temperature	$T_{STG}$	- 40	+ 85	$^{\circ}C$
Soldering Temperature (max. 3s)	$T_{SOL}$		+ 260	$^{\circ}C$

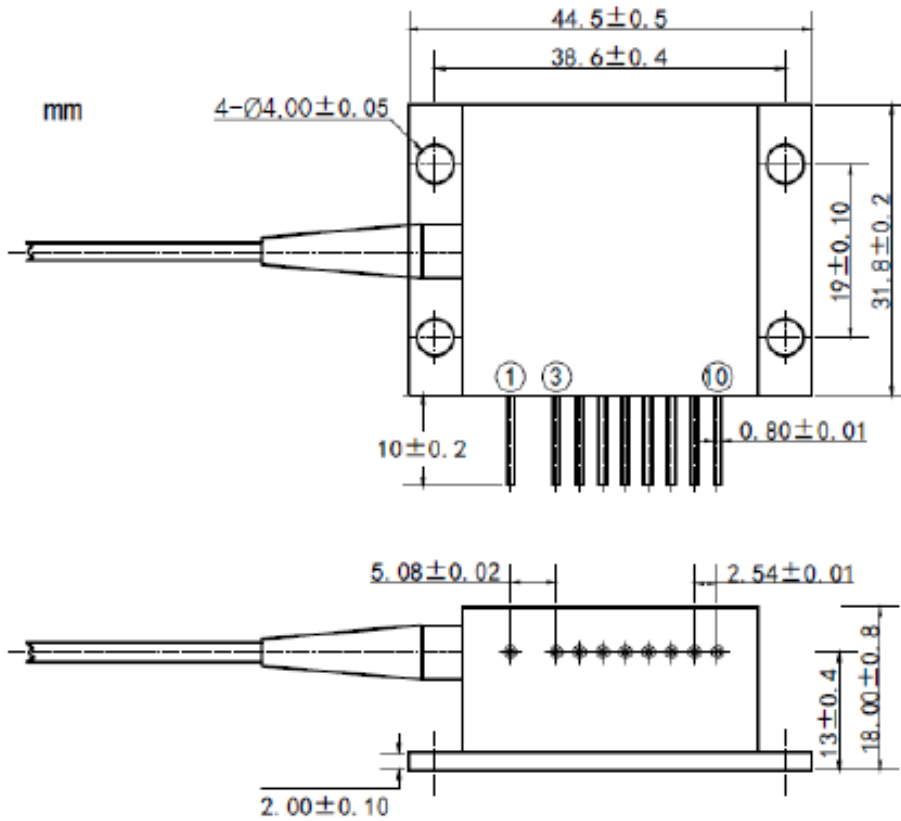


## Electro-Optical Characteristics ( $T_{CASE} = 25^{\circ}C$ )

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Peak Wavelength	$\lambda_P$	440	450	465	nm
Spectral Width (FWHM)	$\Delta\lambda$		3.0		nm
Output Power	$P_O$		3.5		W
Operating Voltage	$V_F$		4.5	5.5	V
Threshold Current	$I_{th}$		0.3	0.5	A
Operating Current	$I_F$		3.0	3.3	A
TEC Maximum Current	$I_{TEC}$			6	A
TEC Maximum Voltage	$V_{TEC}$			9.8	V
Fiber Specification	core		200		$\mu$ m
	connector		FC/PC		
	length		80		cm



## Outline Dimensions / Pinout



PIN	FUNCTION
1	TEC (-)
2	-
3	CASE
4	LD (+)
5	THERM
6	THERM
7	LD (-)
8	PD (P)
9	PD (N)
10	TEC (+)

all dimensions in mm

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