



SPL808-20-PM-PD

- IR Pigtailed Laser Diode
- 808 nm, 20 mW
- 5 μ m Polarization Maintaining Fiber
- FC/APC connector
- Built-in PD
- Heat Sink



Description

SPL808-20-PM-PD is a red pigtailed laser diode with **built-in monitor photodiode**, typically emitting at 808 nm with an output power of 20 mW. It comes in a coaxial package with integrated heat sink, and **5 μ m polarization maintaining fiber** with FC/APC connector. Variants without heat sink are optionally available.

Maximum Ratings*

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	V_R		2.0	V
PD Reverse Voltage	V_{RPD}		30	V
Operating Temperature	T_{OPR}	- 10	+ 50	$^{\circ}$ C
Storage Temperature	T_{STG}	- 40	+ 85	$^{\circ}$ C
Soldering Temperature (t_{max} , 3s)	T_{SOL}		+ 260	$^{\circ}$ C

* Operating close to or exceeding these parameters may damage the device

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

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Peak Wavelength	λ_P	800	808	818	nm
Spectral Width	λ_{Δ}		2		nm
Output Power	P_O		20		mW
Operating Voltage	V_F		2.2	2.6	V
Threshold Current	I_{th}		25	65	mA
Operating Current	I_O		130	150	mA
PD Monitor Current	I_{PD}		0.1		mA
Fiber Spec.	Type		PM Fiber		
	Core diameter		5		μ m
	Pol. Extinction Ratio		13	15	dB
	N.A.		0.12		
	Connector		FC/APC		
	Length			80	

