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AUSTRIA



SPL850-30-5-PD

- IR Pigtailed Laser Diode
- 850 nm, 30 mW
- 5 μ m Single Mode Fiber
- FC/PC connector
- Heat Sink (optional)



Description

SPL850-30-5-PD is an infrared pigtailed laser diode, typically emitting at 850nm with an output power of 30 mW, with an integrated monitor photodiode. It comes in a coaxial package with **5 μ m single mode fiber** and FC/PC connector. **SPL850-30-5-PD** is also available with an optional heat sink.

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

| Parameter | Symbol | Values | | Unit |
|---------------------------------|-----------|--------|-------|-------------|
| | | Min. | Max. | |
| Reverse Voltage | V_R | | 2.0 | V |
| Operating Temperature | T_{OPR} | - 40 | + 60 | $^{\circ}C$ |
| Storage Temperature | T_{STG} | - 40 | + 80 | $^{\circ}C$ |
| Soldering Temperature (max. 3s) | T_{SOL} | | + 250 | $^{\circ}C$ |



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

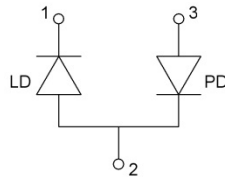
| Parameter | Symbol | Values | | | Unit |
|---------------------|-------------|--------|-------------|------|---------|
| | | Min. | Typ. | Max. | |
| Peak Wavelength | λ_P | 840 | 850 | 860 | nm |
| Output Power | P_O | | 30 | | mW |
| Operating Voltage | V_F | | 2.3 | 2.6 | V |
| Threshold Current | I_{th} | | 40 | 85 | mA |
| Operating Current | I_F | | 200 | 220 | mA |
| Monitor Current | I_{PD} | | 0.5 | | mA |
| PD Reverse Voltage | V_{PDR} | | 30V | | |
| Fiber Specification | type | | single mode | | |
| | core | | 5 | | μ m |
| | connector | | FC/PC | | |
| | length | | 80 | | cm |



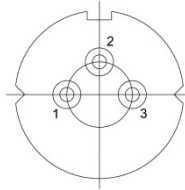
Electrical Connection

Pin Configuration*

| Pin # | Function |
|-------|----------------------|
| Pin 1 | LD cathode |
| Pin 2 | LD anode, PD cathode |
| Pin 3 | PD anode |

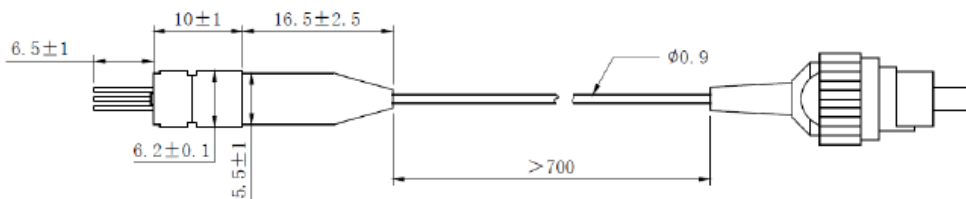


Bottom View



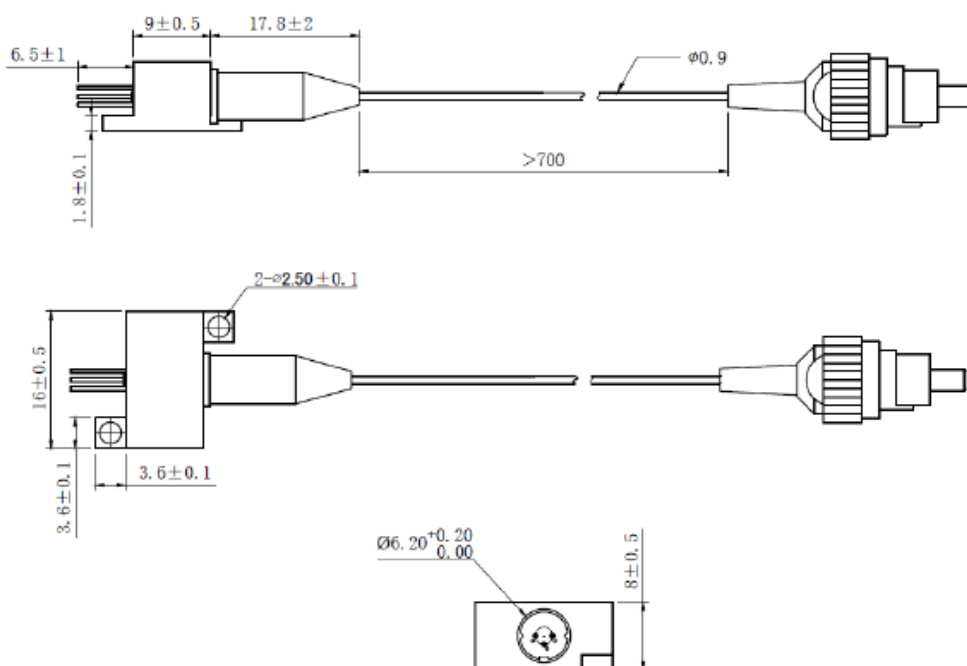
* subject to change

Coaxial Package



All dimensions in mm

B1 Package (optional)



All dimensions in mm