

Features:

- CW output power of up to 20 mW
- LD-like spatial brightness, single transverse mode output
- LED-like bell-shaped spectrum with a very small ripples

Applications:

- Atomic force microscopy
- Optical coherence tomography
- Optical sensors
- Optical measurements
- Low speckle illumination
- Others

TO-9 Package



Specifications (at +25 °C case):

Parameter	Min	Typ.	Max
Output power, P, mW	–	–	20
Forward current, mA	–	–	150
Forward voltage, V	–	–	2.5
Central wavelength*, nm	910	920	930
Spectrum width*, nm	25	30	–
Residual spectral modulation depth*, % (Resolution 0.02 nm)	–	1.0	5.0
Wavelength shift with temperature P>5 mW, dλ/dT, nm/°C, to λ at +25 °C	–	0.27	–
Secondary coherence subpeaks*, (10 log), dB	–	-25 [†]	–
Polarization ratio*, dB	–	20	–
Far field divergence in the p-n junction plane*, degrees	–	14	–
Far field divergence in the plane normal to p-n junction*, degrees	–	40	–
PD monitor photocurrent*, μA	100	–	–
Operating temperature [‡] , °C	-20	–	+55
Storage temperature, °C	-55	–	+85

* At an output power of 20 mW and a case temperature of +25 °C.

[†] Guaranteed secondary subpeaks below -20 dB upon request.

[‡] At +55 °C, maximum output power should not exceed 10 mW.

The following part number should be used when **ordering**:

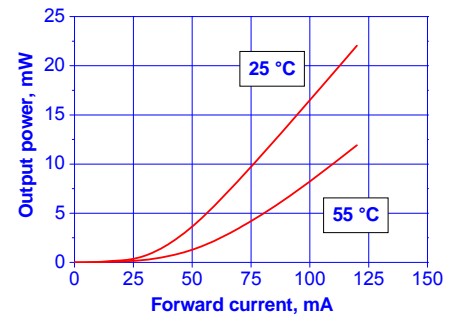
SLD-480-MP-TO9-PD-920

All specifications are subject to change without notice.

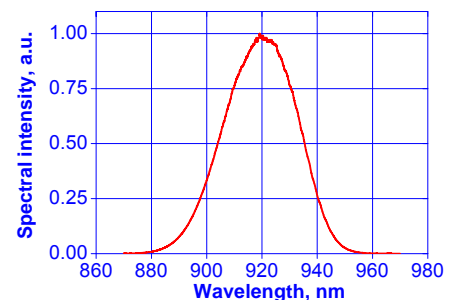
Rev.01.ST480TO9MP920.300817

PERFORMANCE EXAMPLES

Light-current curves at different case temperatures



Spectrum example (20 mW)



Far field (20 mW)

