

For current pricing, please see our website.

Updated
LF
3/28/12

CHAPTERS

Coherent Sources

Incoherent Sources

Quantum Electronics

Drivers/Mounts

Accessories

SECTIONS

Laser Diodes

Pigtailed Diodes

Fiber-Coupled Laser Sources

WDM Laser Sources

HeNe Lasers

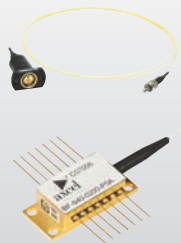
Laser Diode Modules

Tunable Lasers

Femtosecond Lasers

Optical Amplifiers

940 nm Pigtailed Laser Diodes



Available with Single Mode Fiber or in a 14-Pin Butterfly Package with PM Fiber

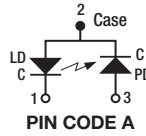
See page 1260

$\lambda = 915 \text{ nm}$, $P = 1 \text{ W}$, Multimode Thorlabs L915P1WJ



CAUTION: ELECTROSTATIC SENSITIVE

Pin Description
1 laser cathode
2 common case
3 monitor diode anode



- Ø9 mm Package
- 1 W Multimode Output
- 1 x 100 µm Emitter Size
- Patented Device Structure, F000038US01
- 1 W Max

Maximum Ratings ($T_c = 25 \text{ }^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	1 W
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	20 V
Operation Case Temperature	T_c	-20 to 40 $^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to 85 $^\circ\text{C}$

Optical-Electrical Characteristics ($T_c = 25 \text{ }^\circ\text{C}$, $P = 1 \text{ W}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	905 nm	915 nm	925 nm
Threshold Current	I_{th}	–	0.45 A	0.65 A
Operating Current	I_{op}	–	1.5 A	1.8 A
Operating Voltage	V_{op}	–	1.5 V	1.8 V
Beam Divergence (FWHM)	$\theta_{//}$	3 $^\circ$	5 $^\circ$	7 $^\circ$
	θ_{\perp}	–	26 $^\circ$	31 $^\circ$
Slope Efficiency	η_s	0.85 W/A	1.0 W/A	–
Monitor Current	I_m	0.05 mA	–	10 mA

Note: All data are presented as typical unless otherwise specified.

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
L915P1WJ	£ 274.10	€ 331.21	¥ 3,034.18

*For quantities over 5 pieces, please call our local office for pricing.

ITEM #	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
L915P1WJ	\$ 380.70	\$ 335.02	\$ 323.60	Thorlabs 915 nm, 1 W

$\lambda = 940 \text{ nm}$, $P = 100 \text{ mW}$, Single Mode Axcel M9-940-0100

Maximum Ratings ($T_c = 25 \text{ }^\circ\text{C}$)

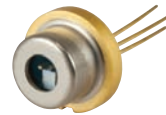
CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	100 mW
LD Reverse Voltage	$V_{R(LD)}$	–
PD Reverse Voltage	$V_{R(PD)}$	–
Operation Case Temperature	T_c	-20 to 50 $^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to 80 $^\circ\text{C}$

Characteristics ($T_c = 25 \text{ }^\circ\text{C}$, $P = 100 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	935 nm	940 nm	945 nm
Threshold Current	I_{th}	–	20 mA	40 mA
Operating Current	I_{op}	–	140 mA	180 mA
Operating Voltage	V_{op}	–	1.9 V	2.2 V
Beam Divergence (FWHM)	$\theta_{//}$	–	8 $^\circ$	10 $^\circ$
	θ_{\perp}	–	28 $^\circ$	32 $^\circ$
Slope Efficiency	η_s	0.8 mW/mA	0.9 mW/mA	–
Monitor Current	I_m	–	0.138 mA	–

Note: All data are presented as typical unless otherwise specified.

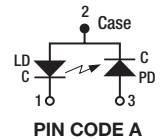
CAUTION: ELECTROSTATIC SENSITIVE



NEW product

- Ø9 mm Package
- 940 nm (Typical) Wavelength
- 100 mW Output Power (CW)
- 20 mA (Typical) Threshold Current

Pin Description
1 laser cathode
2 common case
3 monitor diode anode



ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
M9-940-0100	£ 214.22	€ 258.85	¥ 2,371.24

*For quantities over 5 pieces, please call our local office for pricing.

ITEM #	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
M9-940-0100	\$ 297.52	\$ 255.87	\$ 232.07	Axcel 940 nm, 100 mW

$\lambda = 940 \text{ nm}$, $P = 200 \text{ mW}$, Single Mode Axcel M9-940-0200

Maximum Ratings ($T_c = 25 \text{ }^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	200 mW
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operation Case Temperature	T_c	-20 to 50 $^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to 80 $^\circ\text{C}$

Characteristics ($T_c = 25 \text{ }^\circ\text{C}$, $P = 200 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	935 nm	940 nm	945 nm
Threshold Current	I_{th}	–	20 mA	40 mA
Operating Current	I_{op}	–	270 mA	320 mA
Operating Voltage	V_{op}	–	1.9 V	2.2 V
Beam Divergence (FWHM)	$\theta_{//}$	–	8 $^\circ$	10 $^\circ$
	θ_{\perp}	–	28 $^\circ$	32 $^\circ$
Slope Efficiency	η_s	0.8 W/A	0.9 W/A	–
Monitor Current	I_m	–	0.167 mA	–

Note: All data are presented as typical unless otherwise specified.

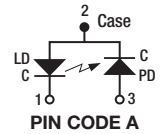
CAUTION: ELECTROSTATIC SENSITIVE



NEW product

- Ø9 mm Package
- 940 nm (Typical) Wavelength
- 200 mW Output Power (CW)
- 20 mA (Typical) Threshold Current

Pin Description
1 laser cathode
2 common case
3 monitor diode anode



ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
M9-940-0200	£ 408.07	€ 493.09	¥ 4,517.08

*For quantities over 5 pieces, please call our local office for pricing.

ITEM #	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
M9-940-0200	\$ 566.76	\$ 538.42	\$ 510.08	Axcel 940 nm, 200 mW