

CHAPTERS

Coherent Sources

Incoherent Sources

Quantum Electronics

Drivers/Mounts

Accessories

SECTIONS

Laser Diodes

Pigtailed Diodes

Fiber-Coupled Laser Sources

WDM Laser Sources

HeNe Lasers

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Tunable Lasers

Femtosecond Lasers

Optical Amplifiers

1550 nm Pigtailed Laser Diodes



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

See pages XXX and XXX

For current pricing,
please see our website.

Specs updated
9-10-14 - LF

$\lambda = 1310 \text{ nm}$ $P = 5 \text{ mW}$, Single Mode Mitsubishi ML725B8F

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

CHARACTERISTIC	SYMBOL	RATING
Optical Output Power (CW)	P_o	10 mW*
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	20 V
Operation Case Temperature	T_c	-40 to +85 °C
Storage Temperature	T_{stg}	-40 to +100 °C

*5 mW Typical

Characteristics ($T_c = 25^\circ \text{ C}$, $P = 5 \text{ mW}$)

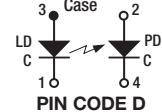
CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	1290 nm	1310 nm	1330 nm
Threshold Current	I_{th}	—	5 mA	15 mA
Operation Current	I_{op}	—	20 mA	35 mA
Operation Voltage	V_{op}	—	1.1 V	1.5 V
Beam Divergence (FWHM)	$\theta_{//}$	—	25°	—
	θ_{\perp}	—	30°	—
Slope Efficiency	η_s	0.3 mW/mA	0.5 mW/mA	—
Monitor Current	I_m	0.1 mA	0.5 mA	—

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



CAUTION:
ELECTROSTATIC
SENSITIVE

Pin Description			
1	laser cathode		
2	monitor diode anode		
3	case/laser anode		
4	monitor diode cathode		



PIN CODE D

- Ø5.6 mm Package
- Single Transverse Mode
- InGaAsP MQW Fabry-Perot Structure

ITEM #	£*	€*	RMB*
ITEM #	1-5 PCS	1-5 PCS	1-5 PCS
ML725B8F	£ 62.79	€ 75,87	¥ 694.99

*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
ML725B8F	\$ 87.20	\$ 81.10	\$ 76.74	Mitsubishi 1310 nm, 10 mW

$\lambda = 1550 \text{ nm}$, $P = 5 \text{ mW}$, Single Mode Mitsubishi ML925B45F

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	6 mW*
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	20 V
Operation Case Temperature	T_c	-40 to 85 °C
Storage Temperature	T_{stg}	-40 to 100 °C

*5 mW Typical

Characteristics ($T_c = 25^\circ \text{ C}$, $P = 5 \text{ mW}$)

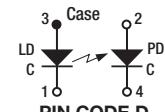
CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	1520 nm	1550 nm	1580 nm
Threshold Current	I_{th}	3 mA	10 mA	20 mA
Operation Current	I_{op}	10 mA	30 mA	50 mA
Operation Voltage	V_{op}	—	1.1 V	1.5 V
Beam Divergence (FWHM)	$\theta_{//}$	—	25°	—
	θ_{\perp}	—	30°	—
Slope Efficiency	η_s	0.15 mW/mA	0.25 mW/mA	0.5 mW/mA
Monitor Current	I_m	0.1 mA	0.5 mA	1 mA

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



CAUTION:
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SENSITIVE

Pin Description			
1	laser cathode		
2	monitor diode anode		
3	case/laser anode		
4	monitor diode cathode		



PIN CODE D

- Ø5.6 mm Package
- MQW Active Layer
- 10 mA (Typ.) Threshold Current
- 30 mA (Typ.) Operating Current

ITEM #	£*	€*	RMB*
ITEM #	1-5 PCS	1-5 PCS	1-5 PCS
ML925B45F	£ 34.13	€ 41,24	¥ 377.78

*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
ML925B45F	\$ 47.40	\$ 45.98	\$ 45.03	Mitsubishi 1550 nm, 5 mW

$\lambda = 1550 \text{ nm}$, $P = 5 \text{ mW}$ DFB, Mitsubishi ML925B11F

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	10 mW*
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	20 V
Operation Case Temperature	T_c	-40 to 85 °C
Storage Temperature	T_{stg}	-40 to 100 °C

*5 mW Typical

Characteristics ($T_c = 25^\circ \text{ C}$, $P = 5 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	1530 nm	1550 nm	1570 nm
Threshold Current	I_{th}	—	8 mA	15 mA
Operating Current	I_{op}	—	25 mA	40 mA
Operating Voltage	V_{op}	—	1.1 V	1.5 V
Beam Divergence (FWHM)	$\theta_{//}$	—	25°	35°
	θ_{\perp}	—	35°	45°
Slope Efficiency	η_s	0.2 mW/mA	0.28 mW/mA	—
Monitor Current	I_m	0.05 mA	0.2 mA	—

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



CAUTION:
ELECTROSTATIC
SENSITIVE

Pin Description			
1	case/laser anode		
2	monitor diode anode		
3	monitor diode cathode		
4	laser cathode		



PIN CODE D

- Ø5.6 mm Package
- InGaAsP MQW, DFB (Multiple Quantum Well Distributed Feedback) Structure
- Fast Response Time (0.1 ns Typical Risetime, 0.2 ns Maximum Falltime)
- Side Mode Suppression Ratio 40 dB (Typ.) (35 dB Min) @ 5 mW

ITEM #	£*	€*	RMB*
ITEM #	1-5 PCS	1-5 PCS	1-5 PCS
ML925B11F	£ 184.68	€ 223,16	¥ 2,044.31

*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
ML925B11F	\$ 256.50	\$ 218.03	\$ 192.38	Mitsubishi 1550 nm, 10 mW