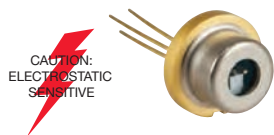


## $\lambda = 1064 \text{ nm}$ , $P = 200 \text{ mW}$ , Single Mode Axcel M9-A64-0200

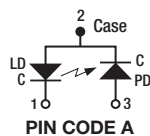


CAUTION: ELECTROSTATIC SENSITIVE

**NEW product**

- Ø9 mm Package
- 1064 nm (Typical) Wavelength
- 200 mW Output Power (CW)
- 50 mA (Typical) Threshold Current

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



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

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 °C
Storage Temperature	$T_{stg}$	-40 to 80 °C

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

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	$\lambda_p$	1059 nm	1064 nm	1069 nm
Threshold Current	$I_{th}$	–	50 mA	100 mA
Operating Current	$I_{op}$	–	280 mA	350 mA
Operating Voltage	$V_{op}$	–	1.7 V	2.0 V
Beam Divergence (FWHM)	$\theta//$	–	8°	10°
	$\theta_{\perp}$	–	28°	30°
Slope Efficiency	$\eta_s$	0.8 mW/mA	0.9 mW/mA	–
Monitor Current	$I_m$	–	0.072 mA	–

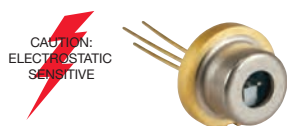
Note: All data are presented as typical unless otherwise specified.

ITEM #	£*	€*	RMB*
	1-5 PCS	1-5 PCS	1-5 PCS
M9-A64-0200	£ 556.16	€ 672.03	¥ 6,156.35

\*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-A64-0200	\$ 772.44	\$ 733.82	\$ 695.20	Axcel 1064 nm, 200 mW

## $\lambda = 1064 \text{ nm}$ , $P = 300 \text{ mW}$ , Single Mode Axcel M9-A64-0300

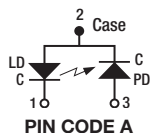


CAUTION: ELECTROSTATIC SENSITIVE

**NEW product**

- Ø9 mm Package
- 1064 nm (Typ.) Wavelength
- 300 mW Output Power (CW)
- 50 mA (Typical) Threshold Current

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



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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	$P_o$	300 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 °C
Storage Temperature	$T_{stg}$	-40 to 80 °C

### Characteristics ( $T_c = 25^\circ\text{C}$ , $P = 300 \text{ mW}$ )

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	$\lambda_p$	1059 nm	1064 nm	1069 nm
Threshold Current	$I_{th}$	–	50 mA	100 mA
Operating Current	$I_{op}$	–	390 mA	480 mA
Operating Voltage	$V_{op}$	–	1.7 V	2.0 V
Beam Divergence (FWHM)	$\theta//$	–	8°	10°
	$\theta_{\perp}$	–	28°	30°
Slope Efficiency	$\eta_s$	0.8 mW/mA	0.9 mW/mA	–
Monitor Current	$I_m$	–	0.250 mA	–

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

ITEM #	£*	€*	RMB*
	1-5 PCS	1-5 PCS	1-5 PCS
M9-A64-0300	£ 833.11	€ 1,006.67	¥ 9,222.01

\*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-A64-0300	\$1,157.09	\$1,099.24	\$1,041.38	Axcel 1064 nm, 300 mW

## $\lambda = 1310 \text{ nm}$ , $P = 5 \text{ mW}$ DFB, Mitsubishi ML725B11F

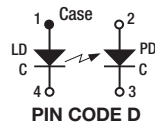


CAUTION: ELECTROSTATIC SENSITIVE

**NEW product**

- Ø5.6 mm Package
- Well Suited as Light Source for Long-Distance Digital Transmission Systems
- Hermetically Sealed Device
- High Side Mode Suppression Ratio (40 dB Typical)
- DFB (Distributed Feedback)

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



### 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	$\lambda_p$	1290 nm	1310 nm	1330 nm
Threshold Current	$I_{th}$	–	6 mA	12 mA
Operating Current	$I_{op}$	–	16 mA	30 mA
Operating Voltage	$V_{op}$	–	1.1 V	1.5 V
Beam Divergence (FWHM)	$\theta//$	–	25°	35°
	$\theta_{\perp}$	–	30°	40°
Slope Efficiency	$\eta_s$	0.3 mW/mA	0.5 mW/mA	–
Monitor Current	$I_m$	0.05 mA	0.2 mA	–

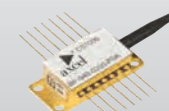
Note: All data are presented as typical unless otherwise specified.

ITEM #	£*	€*	RMB*
	1-5 PCS	1-5 PCS	1-5 PCS
ML725B11F	£ 179.72	€ 217.16	¥ 1,989.32

\*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
ML725B11F	\$ 249.60	\$ 234.62	\$ 224.64	Mitsubishi 1310 nm, 10 mW, DFB

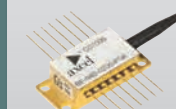
1064 nm Pigtails Laser Diode



Available in a 14-Pin Butterfly Package with PM Fiber

See page 1260

1310 nm Pigtails Laser Diodes



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

See pages 1254 and 1259