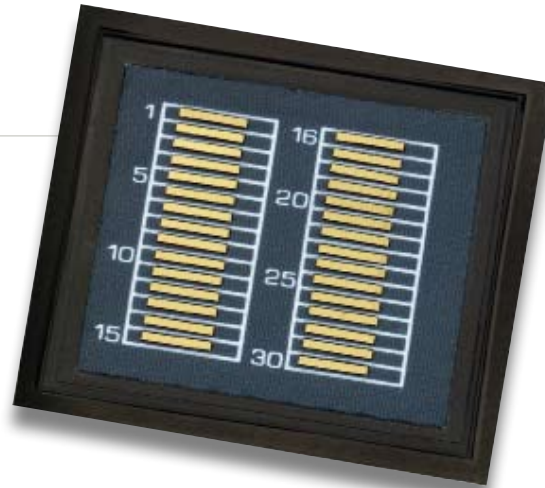


PART NUMBER: UMB700P200  
LASER DIODE BAR



#### > FEATURES AND BENEFITS

- Excellent Solderability
- Available With Any Golden Bullet® Configuration
- Lot Tested
- Available Wavelengths (790-980nm)

#### > OPTICAL CHARACTERISTICS

Parameter	Conditions	Typical	Units
QCW Power Output	175A at 25°C Heat Sink	200	W
Operating Current	200W at 25°C Heat Sink	175	A
Threshold Current	25°C Heat Sink	15	A
Slope Efficiency	25°C Heat Sink	1.25	W/A
Efficiency	200W at 25°C Heat Sink	57	%
Number of Emitters	—	52	
Emitter Size	—	150x1	µm
Emitter Pitch	—	180	µm
Center Wavelength	200W at 25°C Heat Sink	808	nm
Wavelength Tolerance	200W at 25°C Heat Sink	+/-3	nm
Spectral Width	200W at 25°C Heat Sink	2.5	nm
Wavelength Shift	—	0.25	nm/°C
Beam Divergence FWHM	—	38x7	'x'
Polarization	—	TE	

#### > ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Typical	Units
Series Resistance	25°C Heat Sink	0.002	ohms
Operating Voltage	25°C Heat Sink, 200W	2.0	V

#### > MECHANICAL CHARACTERISTICS

Parameter	Typical
Bar Width	9.6 mm
Bar Thickness	135 µm
Bar Cavity Length	1000 µm

#### > NOTES

- (1) These specifications apply for operation at 808nm. Other wavelengths available upon request.
- (2) A dry nitrogen environment should be provided by the user when storing and operating at temperatures below ambient dew point.

## 200W QCW

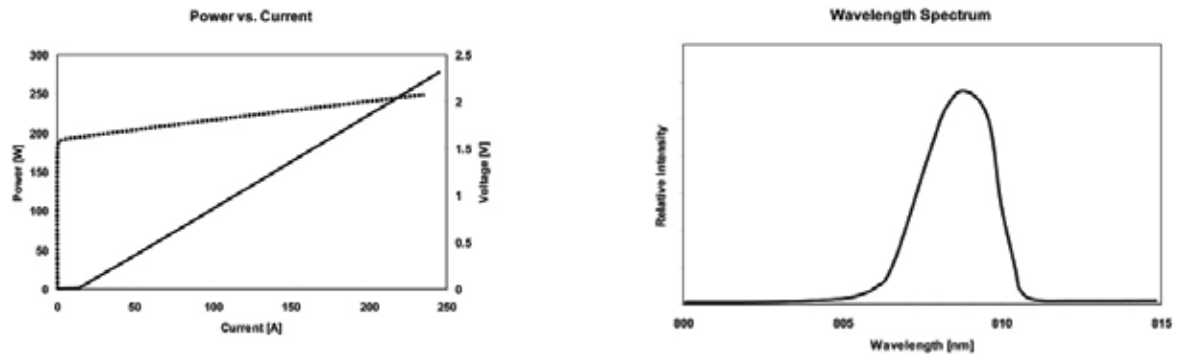
### > ABSOLUTE MAXIMUM RATINGS

Parameter	Conditions
Reverse Current	0 A
Reverse Voltage	0 V
Operating Temperature Range	-40°C to 70°C
Storage Temperature Range	-40°C to 85°C

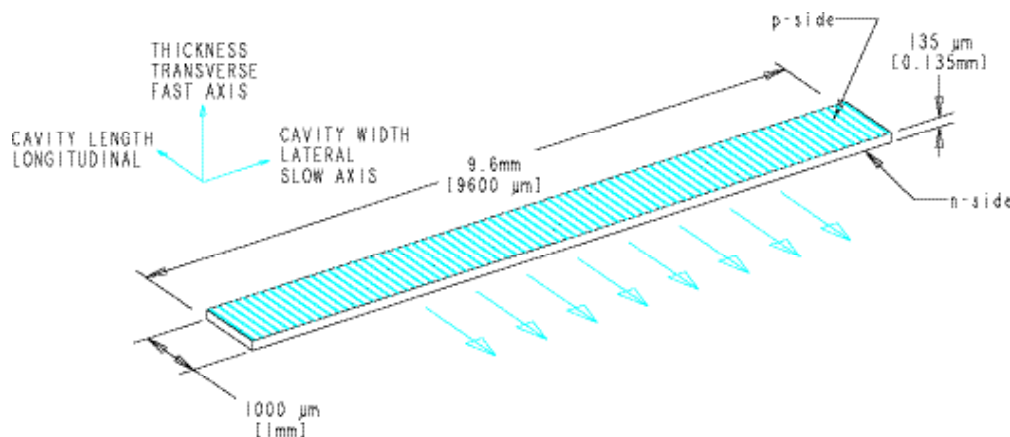
### > SOLDERING CHARACTERISTICS

Parameter	Conditions
Metalization	1000 Å Au over Pt barrier

### > OPTICAL CHARACTERISTICS (TYPICAL)



### > MECHANICAL CHARACTERISTICS



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