

# US-Lasers: 808nm-5mW - Infrared Laser Diode and Infrared Diode Laser Module

**Links to Laser Diode & Laser Module Configurations and Specifications**  
 >>>>>>>>>>

[Laser Diode](#)

[Laser Diode Module](#)

[Micro Laser Module](#)

[Variable Output Laser Diode Module](#)

[N808-5](#)

[NM808-5](#)

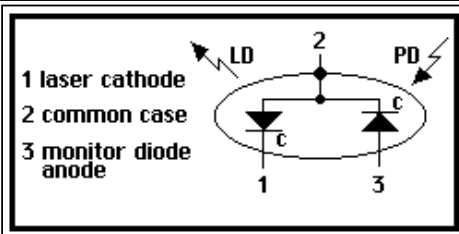
[MM808-5](#)

## DATA SHEETS .... MM808nm 5mW ....IR LASER MODULE & DIODE

<b>Barrel Specs:</b> <ul style="list-style-type: none"> <li>• 2 Pieces</li> <li>• 12 - 56 Thread Size</li> <li>• Dia: 6.4mm</li> <li>• Length: 17mm</li> </ul>	<b>Weight &amp; Wire Lengths:</b> <ul style="list-style-type: none"> <li>• Module with 6" wire leads - 49 grain wt.b</li> <li>• Module without 6" wire leads - 42 grain wt</li> <li>• Module with spring leads - 42 1/2 grain wt.</li> <li>• Spring 2.4mm dia. 4mm long (trimmable)</li> </ul>	<b>Lens Housing Specs:</b> <ul style="list-style-type: none"> <li>• 12 - 56 Thread Size</li> <li>• 3.0mm Aperture</li> <li>• 4.0mm Plastic Lens</li> </ul>
--	--	--

### IR LASER DIODE DATA SHEET

### ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)

<b>TECHNICAL DATA</b> IR light output                      808nm Optical power output                5mW CW Package Type                            5.6mm Built-in photo diode for monitoring laser output	 <p><b>Pin Out Diagram</b></p>
--	---

Items	Symbols	Values	Unit
Optical output power	Po	5	mW
Laser diode reverse voltage	V	2	V
Photo diode reverse voltage	V	30	V
Operating temperature	Topr	-10 ~ +45	°C
Storage temperature	Tstg	-40 ~ +85	°C

### OPTICAL and ELECTRICAL CHARACTERISTICS - (Tc=25 °C)

Items	Symbols	Min.	Typ.	Max.	Unit	Test Condition
Optical output power	Po	-	5	-	mW	-
Threshold current	Ith	-	25	40	mA	-
Operating current	Iop	-	35	50	mA	Po=5mW
Operating voltage	Vop	-	2.5	-	V	Po=5mW
Lasing wavelength		803	808	813	nm	Po=5mW
Beam divergence		-	5	11	deg	Po=5mW
Beam divergence		-	25	37	deg	Po=5mW
Monitor current	Im	-	10	20	uA	Po=5mW
Astigmatism	As	-	5	-	um	Po=5mW
MTTF			3-5,000 hrs.			Po=5mW
Emitter Size	10 x 60 Microns - Emitter Distance to Cap Lens = 0.3mm					
Structure	Index Guided					