

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## US-Lasers: 780nm-5mW - Infrared Laser Diode and Infrared Diode **Laser Module**

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

**Laser Diode** 

**Laser Diode Module** 

**Micro Laser Module** 

Variable Output **Laser Diode Module** 

Specifications >>>>>>>

N780-5

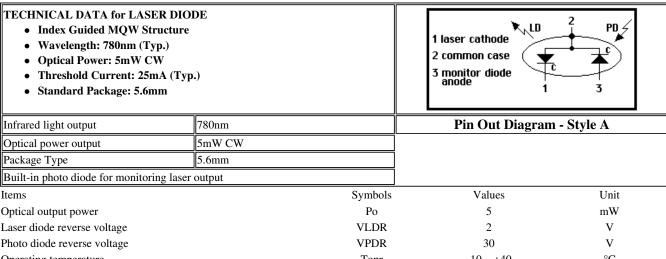
NM780-5

MM780-5

Barrel Specs:	Weight & Wire Lengths:	Lens Housing Specs:
2 Pieces	Module with 6" wire leads - 49 grain wt.b	• 12 - 56 Thread Size
• 12 - 56 Thread Size	Module without 6" wire leads - 42 grain wt	3.0mm Aperture
• Dia: 6.4mm	Module with spring leads - 42 1/2 grain wt.	4.0mm Plastic Lens
• Length: 17mm	Spring 2.4mm dia. 4mm long (trimmable)	

## INFRARED DIODE LASER DATA SHEET

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



Optical output power	Po	5	mW		
Laser diode reverse voltage	VLDR	2	V		
Photo diode reverse voltage	VPDR	30	V		
Operating temperature	Topr	-10 ~ +40	°C		
Storage temperature	Tstg	-40 ~ +85	°C		
perating temperature Topr $-10 \sim +40$ °C					

Items	Symbols	Min.	Typ.	Max.	Unit	Test Condition
Optical output power	Po	-	5	-	mW	-
Threshold current	Ith	15	25	40	mA	-
Operating current	Iop	25	35	50	mA	Po=5mW
Operating voltage	Vop	1.9	2.1	2.5	V	Po=5mW
Lasing wavelength	8 D	770	780	790	nm	Po=5mW
Beam divergence	$\theta$ F	8	11	15	deg	Po=5mW
Beam divergence	θz	20	35	45	deg	Po=5mW
Slope Efficiency (mW/mA)	0	0.1	0.3	0.6		-
Monitor current	Im	100	200	600	μΑ	Po=5mW,Vr=5V
Astigmatism	As	-	11	-	μm	Po=5mW
MTTF		3000-5,000 hrs.				Po=5mW,NA=0.4
Emitter Size	1 v 4 Microns					

**Emitter Size** 1 x 4 Microns 0.3mm Emitter Distance to Cap Lens Structure Index Guided