

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

<u>Laser Diode Module</u>

Micro Laser Module

Variable Output Laser Diode Module

Specifications >>>>>>>

N780-5

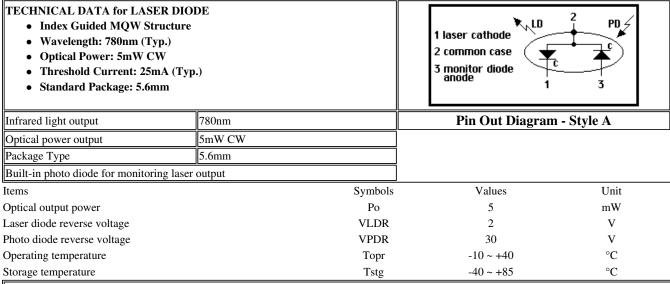
NM780-5

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 3.0mm Aperture		
 12 - 56 Thread Size 	Module without 6" wire leads - 42 grain wt			
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 and ELECTRICAL CHARACTERISTICS - (Tc=25 °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	θ 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 x 4 Microns							

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

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