



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: 635nm-5mW - Red Laser Diode and Red Diode Laser Module

Links to Laser Diode & Laser Module Configurations and Specifications
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[Laser Diodes](#) [Laser Diode Module](#) [Micro Laser Module](#) [Variable Output Laser Diode Module](#)

[N635-5](#)

[NM635-5](#)

[MM635-5](#)

[EPM635-5](#)

DATA SHEETS MM635nm 5mWRED LASER MODULE

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

RED LASER DIODE DATA SHEET

ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)

C)

<p>TECHNICAL DATA</p> <p>Visible laser diode light output 635nm</p> <p>Optical power output 5mW CW</p> <p>Package Type 5.6mm</p> <p>Built-in photo diode for monitoring laser output</p>	<p>Pin Out Diagram</p>
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Items	Symbols	Values	Unit
Optical output power	P _o	5	mW
Laser diode reverse voltage	V	2	V
Photo diode reverse voltage	V	30	V
Operating temperature	Topr	-10 ~ +40	°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	P _o	-	-	5	mW	Kink free
Threshold current	I _{th}	30	35	45	mA	P _o =5mW
Operating current	I _{op}	-	45	70	mA	P _o =5mW
Operating voltage	V _{op}	-	-	2.5	V	P _o =5mW
Lasing wavelength		630	635	645	nm	P _o =5mW
Beam divergence		5	8	11	deg	P _o =5mW

Beam divergence		25	31	37	deg	$P_o=5mW$
Off Axis Angle		-	-	+/-3	deg	
Off Axis Angle		-	-	+/-3	deg	
Monitor current	I_m	-	35	-	uA	$P_o=5mW, V_R=5V$
Astigmatism	A_s	-	11	-	um	$P_o=5mW, NA=0.4$
MTTF				3-5,000 hrs.		$P_o=5mW$
Emitter Size		10 x 60 Microns - Emitter Distance to Cap Lens = 0.3mm				
Structure		IIIGaInP MQW				