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[US-Lasers, Inc.](#)
[MM6505I](#)

For any questions, you can email us directly:
sales@integrated-circuit.com

US-Lasers: 650nm-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](#)

[D650-5](#)

[M650-5](#)

[MM650-5](#)

DATA SHEETS MM650nm 5mWRED LASER MODULE & DIODE

Barrel Specs: <ul style="list-style-type: none"> ● 2 Pieces ● 12 - 56 Thread Size ● Dia: 6.4mm ● Length: 17mm 	Weight & Wire Lengths: <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) 	Lens Housing Specs: <ul style="list-style-type: none"> ● 12 - 56 Thread Size ● 3.0mm Aperture ● 4.0mm Plastic Lens
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RED LASER DIODE ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)

TECHNICAL DATA Visible laser diode light output 650nm Optical power output 5mW CW Package Type 5.6mm Built-in photo diode for monitoring laser output	<p>Pin Out Diagram - Style A</p>
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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 ~ +60	°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	-	20	70	mA	-
Operating current	Iop	-	65	85	mA	Po=5mW
Operating voltage	Vop	-	2.7	-	V	Po=5mW
Lasing wavelength		640	650	660	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	-	11	-	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					