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**DATA SHEETS .... EPM & M650nm 5mW ....RED LASER MODULE**

<b>Barrel Specs:</b> <ul style="list-style-type: none"> <li>• 3/8 - 56 Thread Size</li> <li>• Dia: 10.4mm</li> <li>• Length: 17mm</li> </ul>	<b>Collect Specs:</b> <ul style="list-style-type: none"> <li>• 3/8 - 56 Thread Size</li> <li>• 4.3mm Aperture</li> <li>• Half Hard Brassbbb</li> </ul>	<b>Lens Housing Specs:</b> <ul style="list-style-type: none"> <li>• 3/8 - 56 Thread Size</li> <li>• 3.7mm Aperture</li> <li>• 7mm Plastic Lens</li> </ul>
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**RED LASER DIODE ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)**

<p><b>TECHNICAL DATA</b></p> <p>Visible light output                      650nm</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><b>Pin Out Diagram - Style A</b></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	40	mA	-
Operating current	Iop	-	40	60	mA	Po=5mW
Operating voltage	Vop	-	2.7	-	V	Po=5mW
Lasing wavelength		645	650	655	nm	Po=5mW
Beam divergence		-	5	11	deg	Po=5mW
Beam divergence		-	25	37	deg	Po=5mW
Monitor current	Is	-	10	20	uA	Po=5mW
Astigmatism	As	-	11	-	um	Po=5mW
MTTF			10000 hrs			Po=5mW
Emitter Size		10 x 60 Microns - Emitter Distance to Cap Lens = 0.3mm				
Structure		Index Guided				