

LDM-0520-C-0045-00-99-00-A

Key Features:

Mini Size
 High Reliability
 High Performance
 Wide Operating Temperature
 Auto Power Controlled

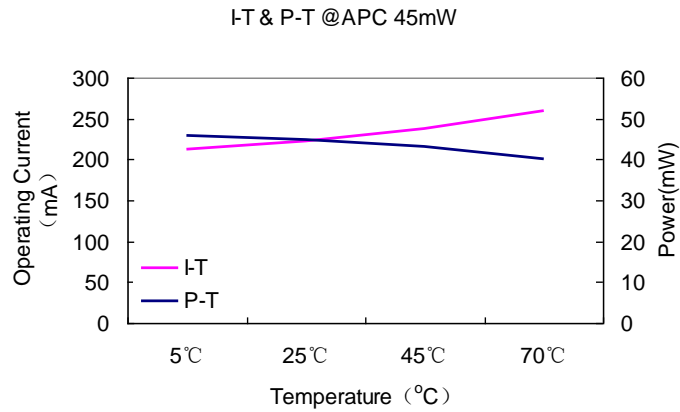
Applications:

Laser Display
 Surveying Equipment
 Laser Alignment & Pointing

Model Number		LDM-0520-C-0045-00-99-00-A			
Optical Parameters		Photop Specs			Conditions
		Min	Typ	Max	
Wavelength		515nm	520nm	530nm	
Spectral Width		-	2nm	-	
Rating Output Power		40mW	45mW	60mW	APC Mode
Operating Temperature (Case)		-	5~70°C	-	
Laser Beam Roundness		-	80%	-	
Beam Divergence (Calculated, 1/e ²)		-	0.3mrad	0.5mrad	Full angle
Optic Material		Glass			
Electrical Parameters					
Threshold Current		-	60mA	120mA	T case = 25°C
Operating Current		-	220mA	260mA	5~70°C
Operating Voltage		-	7.0V	8.0V	5~70°C
Laser Diode Reverse Voltage		-	-	2V	
Monitor Current		0.1mA	0.3mA	0.5mA	P ₀ =45mW
Monitor Diode Reverse Voltage		-	-	60V	
Rating Power Consumption		-	1.5W	2.1W	5~70°C
Modulation Frequency		-	>100MHZ	-	
Mechanical Parameters					
Laser Head Dimensions	Length	-	24.0mm	-	refer to dimensions drawing
	Diameter(Front end)	-	7.0mm	-	refer to dimensions drawing
	Diameter(Back end)	-	7.1mm	-	refer to dimensions drawing
Beam Alignment Angle(Off-axis Angle)		-	-	8mrad	
Laser Weight		-	TBD	-	
Reliability					
Operating Humidity		-	5%~85% R.H.	-	
Storage Temperature		-	-40 to +85 °C	-	
Shock		-	1500g, 0.5ms, 6 shocks	-	3 axes, 2 shocks/axis

Vibration	-	20~2000Hz, 0.02g ² /Hz	-	3 axes, 1hr/axis
Expected Lifetime (MTTF)	10000hrs	-	-	45mW,25°C

Typical Output Performance



Dimensions and Pin Configuration (Unit: mm)

