



FRPM-639-01

Key Features:

Mini Size
 High Reliability
 High Stability
 High Polarization Extinction Ratio

Applications:

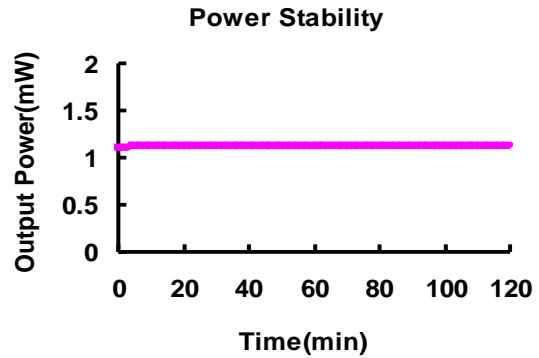
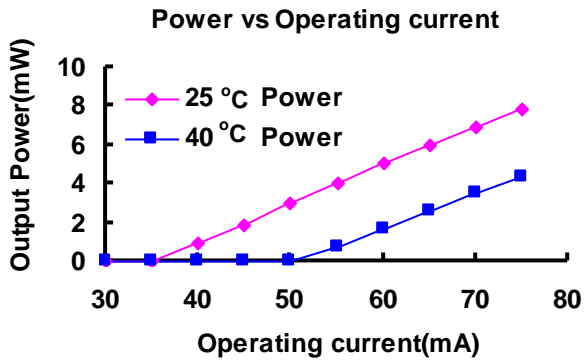
Laser Pointer
 Laser Display
 Test and Measurement Source
 Survey Equipments

Model Number	FRPM-639-01			
Optical Parameters	Specs			Conditions
	Min	Typ	Max	
Wavelength	630nm	639nm	645nm	
Output Power	0.8mW	1mW ^①	1.5mW	At 25 °C
Power Stability (2hours @ Constant Temp)	+/-0.5%	+/-1%	+/-2.5%	
Operating Temperature (Case)	-	-	-10~+40 °C	APC
M-Square	-	-	1.1	
Polarization Extinction Ratio	13dB	15dB	-	At 25 °C
Fiber Coupling Efficiency	35%	40%	45%	
Electrical Parameters				
LD Working Current	-	43mA ^②	80mA	
LD Working Voltage	-	2.3V	2.6V	
Monitor Current	50uA	250uA	700uA	1mW @25 °C
Laser Operating Mode	-	APC	-	
Fiber Parameters				
Fiber Type	-	4.5/125µm PM Fiber	-	
Fiber Numerical Aperture	-	0.13	-	
Mechanical Parameters				
Laser Head	Length	-	28.35mm	-
Dimensions	Diameter	-	8mm	-
Reliability				
Operating Humidity	-	5%~85% R.H.	-	
Storage Temperature	-	-40 to +85 °C	-	
Shock	150m/s ² , 6ms, semisinusoidal, 4000 shocks, z-axis 75m/s ² , 6ms, semisinusoidal, 1000 shocks, x,y-axis			
Vibration	Amplitude = ±0.75mm, 10 Hz to 57 Hz sinusoidal, 20 cycles per axis Acceleration 1g, 57 to 500 Hz sinusoidal, Sweep Rate 1 Oct/min			
Expected Lifetime (MTTF)	5000hrs	-	-	Room temperature

Note: ^①1~4mW is optional

^②1mW at 25 °C

Typical Output Performance



FRPM-639-01-LL-JJ-TT

LL: Fiber Length	05=0.5M
	10=1M
	00= To be Customized
JJ: Fiber Jacket (diameter)	01= 900 μ m buffer
	02=2.8mm PVC Jacket
	00= To be Customized
TT: Fiber Termination	01=No Connector
	02= FC/APC Connector
	03= FC/PC Connector
	00= To be Customized

Dimensions and Pin Configuration (Unit: mm)

