



Single-mode Fiber Coupled Red Laser Diode

Key Features:

Low Noise
Low Cost
Mini Size
High Reliability
High Stability

Applications:

Laser Pointer
Laser Display
Test and Measurement Source
Survey Equipments

Model Number	FRSM-01	FRSM-05	FRSM-10	FRSM-20	FRSM-30
Optical Parameters					
Peak Wavelength ①	635nm		639nm	642nm	
Output Power from Fiber	1mW	5mW	10mW	20mW	30mW
Power Stability (8hrs)	APC, @ constant temp		<+/-2%		
Operating Temperature (Case)	-10~50 deg C				
Fiber Coupling Efficiency	40%				
Mode Quality (M2)	<1.1				
Electrical Parameters					
Laser Operating Mode	APC				
LD Operating Current	<36mA	<100mA	<130mA	<155mA	<175mA
LD Working Voltage	<2.4V	<2.7V	<2.8V	<2.7V	
Photo Diode	Internal included				
Fiber Parameters					
Fiber Type	4.0/125μm SM Fiber				
Fiber Numerical Aperture	0.13				
Mechanical Parameters					
Laser Dimensions	Length	26 mm			
	Diameter	8 mm			
Reliability					
Operating Humidity	5%~85% R.H.				
Storage Temperature	-40 to +85 deg C				
Expected Lifetime (MTTF)	>10000hrs				

①Can be Customized.



Order Information:

FRSM — WWW — PP — LL — JJ — TT

WWW: Peak Wavelength	635=635 nm
	639=639 nm
	642=642 nm
	000=To be Customized
PP: Output Power from Fiber	01=1mW
	05=5mW
	10=10mW
	20=20mW
	30=30mW
	00= To be Customized
LL: Fiber Length	05=0.5M
	10=1M
	15=1.5M
	20=2M
	00= To be Customized
JJ: Fiber Jacket (diameter)	01= 900 μ m black buffer
	02=2.8mm PVC Jacket
	00= To be Customized
TT: Fiber Termination	01=No Connector
	02= FC/APC Connector
	00= To be Customized

Mechanical Drawing

