



Model No.	FRS5XX
REV.	C4

850nm & 940nm Infrared LED Module

Specifications :

- Diameter(outer): 52.5mm
- Diameter(inner): 18.75mm
- Height: 12mm
- LEDs: 36pcs
- Each LED watts: 0.06W
- Total Watts: 2.4W
- Volts: 12-15Volts DC
- Lifetime: 20,000hrs

Features :

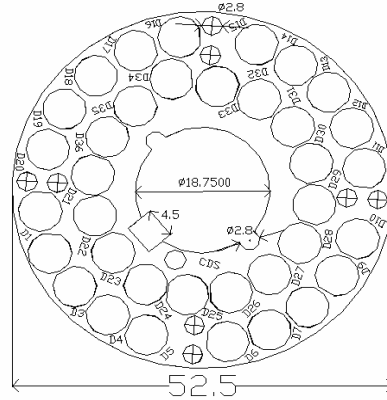
- IR Power On –CDS Auto Control
- IR Wavelength 850nm or 940nm
- Color Transparent Type
- Superior UV Resistance
- 0 Lux with IR LED ON. Adopt high Radiant Power IR LED, having very good night-vision effect

Application :

- Pickup device
- CCTV camera, IR camera
- Monitoring devices. Remote controlling

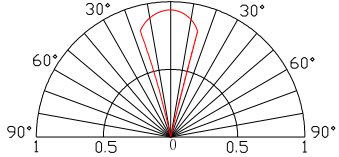
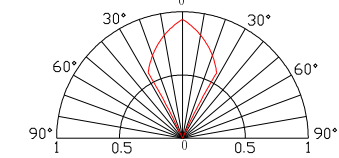
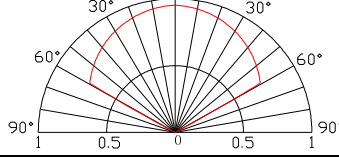
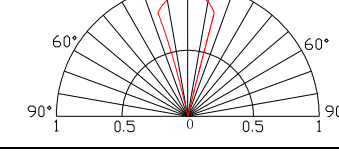
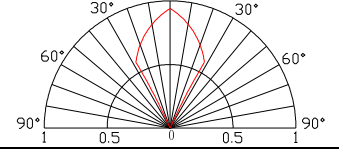
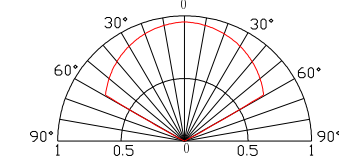
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Product Picture and Dimensions:

 Unit: mm Tolerance: ± 0.5


Unit:mm

Device Selection Guide

Module No.	LED	Wavelength (Typ.)	LED Module Beam Angle	Pattern
FRS5CT	OSI3CA5201A	850nm	30 degree	
FRS5CS	OSI3CA5113A	850nm	60 degree	
FRS5CC	OSI3CA5453B	850nm	120 degree	
FRS5JT	OSI5LA5203A	940nm	30 degree	
FRS5JS	OSI5LA5113A	940nm	60 degree	
FRS5JC	OSI5LA5453B	940nm	120 degree	



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Absolute Maximum Ratings(Ta=25°C)

Items	Symbol	Values	Units
Operating Supply Range(DC)	V _{idc}	15	V
Input Current (DC)	I _i	210	mA
Power Dissipation	P _a	3.1	W
Operating Temperature	T _{ope}	-10 ~ +60	DegC
Storage Temperature	T _{stg}	-20 ~ +50	DegC

Typical Performance (Ta=25°C)

Items	Symbol	Min.	Typ.	Max.	Units
LED Module Power	P _m	-	2.4	3.1	w
Input Voltage(DC)	V _i	-	12	15	V
Product Input Current	I _f	-	200	210	mA
LED Quantity	QTY	-	36	-	Pcs
Total Diameter of PCB	L _{mod.}	-	52.5	-	mm
Net Weight	Wei.	---	25	---	g

CAUTION:

- To prevent electric shocks and risk of fire hazards, do NOT use other than specified power source.
- The power supply must through safe attestation. Its output Voltage/current/voltage polarity and operating temperature must match the requirement.
- Please note the IR module's operating temperature and its using environment requirement. Avoid using at too high or too low temperatures.