



Model No.	FRS5XX
REV.	C2

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 :

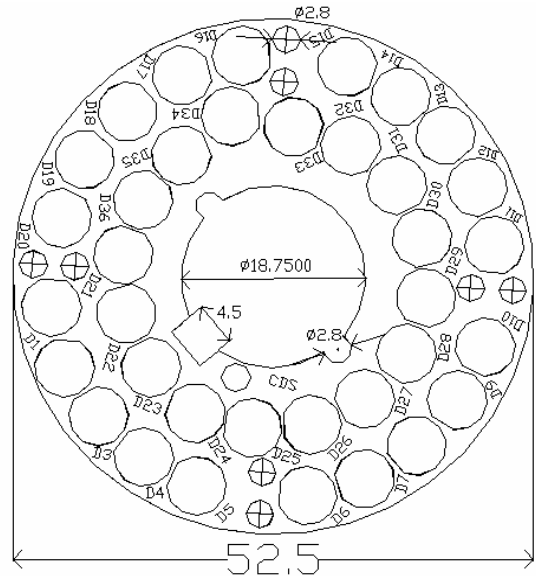
- IR Power On –CDS Auto Control
- IR Wavelength 850nm or 940nm
- Color Transparent Type
- Superior UV Resistance
- 0 Lux with IR LED ON. Adopt high Radiant Power IR LED, having very good night-vision effect

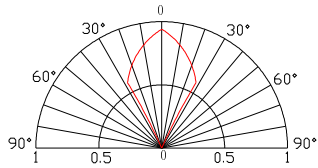
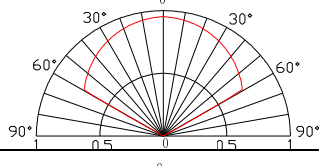
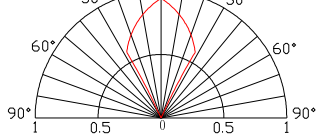
Application :

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

Model No.	FRS5XX
REV.	C2

Product Picture and Dimensions:

 Unit: mm Tolerance: ± 0.5

Device Selection Guide

Module No.	Wavelength (Typ.)	LED Module Beam Angle	Pattern
FRS5IS	850nm	60 deg	
FRS5IC	850nm	120 deg	
FRS5JS	940nm	60 deg	



Model No.	FRS5XX
REV.	C2

Absolute Maximum Ratings(Ta=25°C)

Items	Symbol	Values	Units
Operating Supply Range(DC)	V _{dc}	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
PCB Diamter	L _{mod.}	-	52.5	-	mm
Net Weight	Wei.	---	25	---	g

Cautions:

- 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.