

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

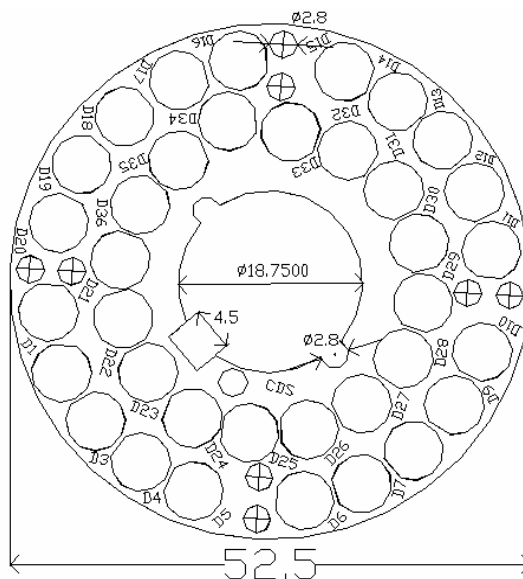
Application :

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

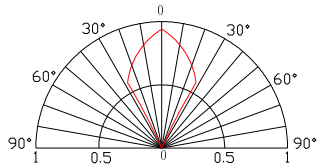
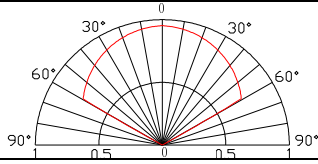
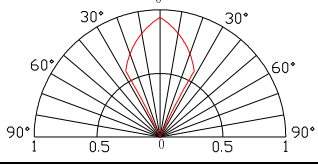
Model No.	FRS5XX
REV.	C2

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	

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.