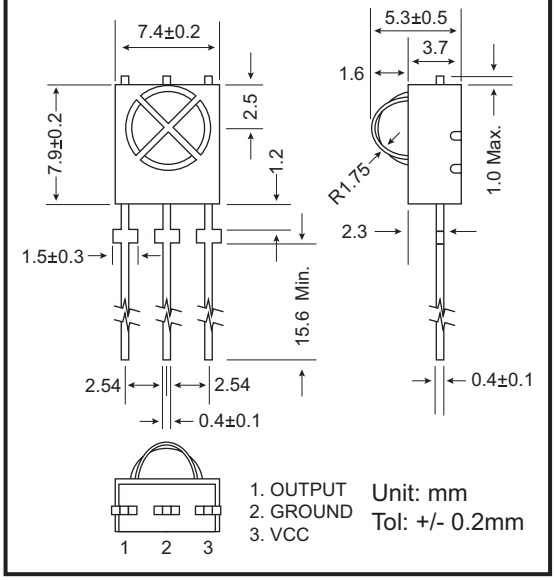
LUCKY LIGHT

GB-IRM-8751 SERIES
Infrared Receiver Module

DESCRIPTION:

The IRM-8751 series is a miniature type infrared remote control system receiver which has been developed and designed by utilizing the most updated IC technology.
The pin diode and preamplifier are assembled on a single lead frame.
The epoxy package is designed as an IR filter. The demodulated output signal can directly be decoded by a microprocessor.

PACKAGE DIMENSIONS



ABSOLUTE MAXIMUM RATINGS: (Ta=25°C)

Parameter	Symbol	
Supply Voltage	V_{CC}	**Max**
Operating Temperature Range	T_{opr}	5.3 V
Storage Temperature Range	T_{stg}	-10°C To +85°C
Lead Soldering Temperature 1.6mm(.06") from body 260°C for 5 seconds		-20°C To +100°C

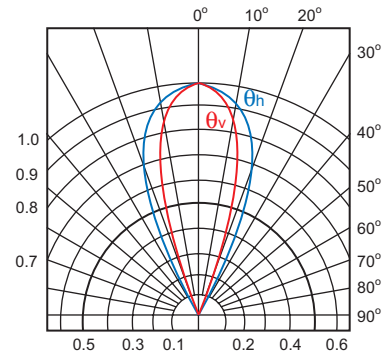
NOTES : 1. All dimensions are in millimeters.
2. Lead spacing is measured where the leads emerge from the package.
3. Protuded resin under flange is 1.5 mm (0.059") Max.
4. Specifications are subject to change without notice.

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

Part No.	Lead Type	Peak Wave Length λp (nm)	B.P.F Center Frequency F_o (KHz)	Reception Distance (m)		Supply Current I_{CC} (mA)	Supply Voltage V_{CC} (V)			Half Angle (Horizontal) θ_h	Half Angle (Vertical) θ_v
		Typ	Typ	L_O	L_{45}	Max	Min	Typ	Max	Typ	Typ
GB-IRM-8751-2L	Straight	940	37.9	16	7	3	2.4	2.7	5.5	±45	±35
GB-IRM-8751-2F	Bended	940	37.9	16	7	3				±45	±35
GB-IRM-8751-4L	Straight	940	37.9	16	8	3	4.5	5.0	5.5	±45	±35
GB-IRM-8751-4F	Bended	940	37.9	16	8	3				±45	±35

TESTING CONDITION FOR EACH PARAMETER (Ta=25°C)

Parameter	Symbol	Unit	Test Condition
Supply Voltage	V_{CC}	V	DC Voltage
Supply Current	I_{CC}	mA	No signal input
Peak Wave Length	λ_p	nm	From the vertex of receiving suface to ray axis range θ=0° and θ=45°
Reception Distance	L_o/L_{45}	m	
Half Angle (Horizontal)	θ_h	Deg	
Half Angle (Vertical)	θ_v	Deg	



SPATIAL DISTRIBUTION