

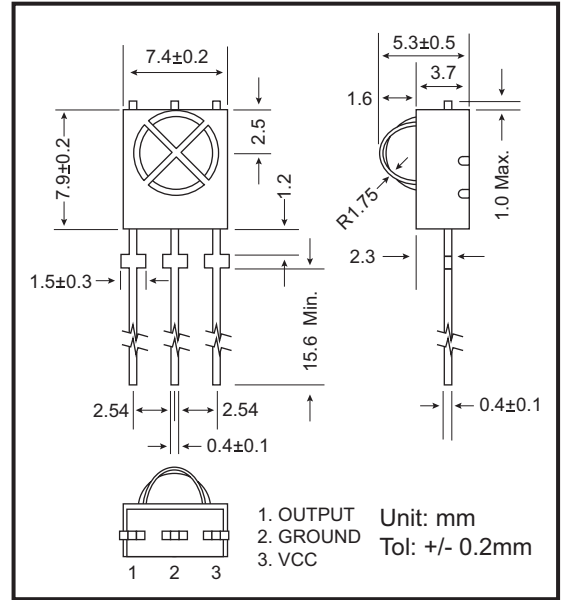
DESCRIPTION:

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

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.

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

Part No.	Lead Type	Peak Wave Length λ_p (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 surface to ray axis range $\theta=0^\circ$ and $\theta=45^\circ$
Reception Distance	L _o /L ₄₅	m	
Half Angle (Horizontal)	θ_h	Deg	
Half Angle (Vertical)	θ_v	Deg	

