

# INFRARED PRODUCTS

( Optic Receiver Modules )

REV:B  
DATE:2005/4/15

📄 **DEVICE NO:IR-2638**

## 📄 **FEATURE:**

- Compact and light plastic package.
- Shielded against electrical field disturbance.
- All photosensitive ICs in this series have a standard availability.

## 📄 **APPLICATION:**

Video cameras , Movie cameras , Audio equipment , Air conditioner.

## 📄 **ABSOLUTE MAXIMUM RATINGS:**

T<sub>A</sub>=25°C

PARAMETER	SYMBOL	MAX. RATING	UNIT
Supply Voltage	V <sub>cc</sub>	0~6	V
Operating Temperature	T <sub>opr</sub>	-25 ~ +80	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	°C
Soldering Temperature 260°C (4mm from case bottom for 5 seconds)			

## 📄 **ELECTRIC-OPTICAL CHARACTERISTICS:**

T<sub>A</sub>=25°C

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Supply Voltage	V <sub>cc</sub>	DC voltage	4.5	5.0	5.5	V
Supply Current	I <sub>cc</sub>	no signal input	-	-	3	mA
B.P.F Center Frequency	F <sub>o</sub>		-	38	-	kHz
Peak Wavelength	λ <sub>p</sub>		-	940	-	nm
Reception Distance	L <sub>0</sub>	At the ray axis *1	14	-	-	m
	L <sub>45</sub>		6	-	-	
Half Angle(Horizontal)	θ <sub>h</sub>		-	45	-	deg
Half Angle(Vertical)	θ <sub>v</sub>		-	45	-	deg
Hight Level Pulse Width	T <sub>H</sub>	At the ray axis *2	400	600	800	μs
Low Level Pulse Width	T <sub>L</sub>		400	600	800	μs
Hight Level Output Voltage	V <sub>H</sub>		4.5	-	-	V
Low Level Output Voltage	V <sub>L</sub>		-	0.2	0.5	V

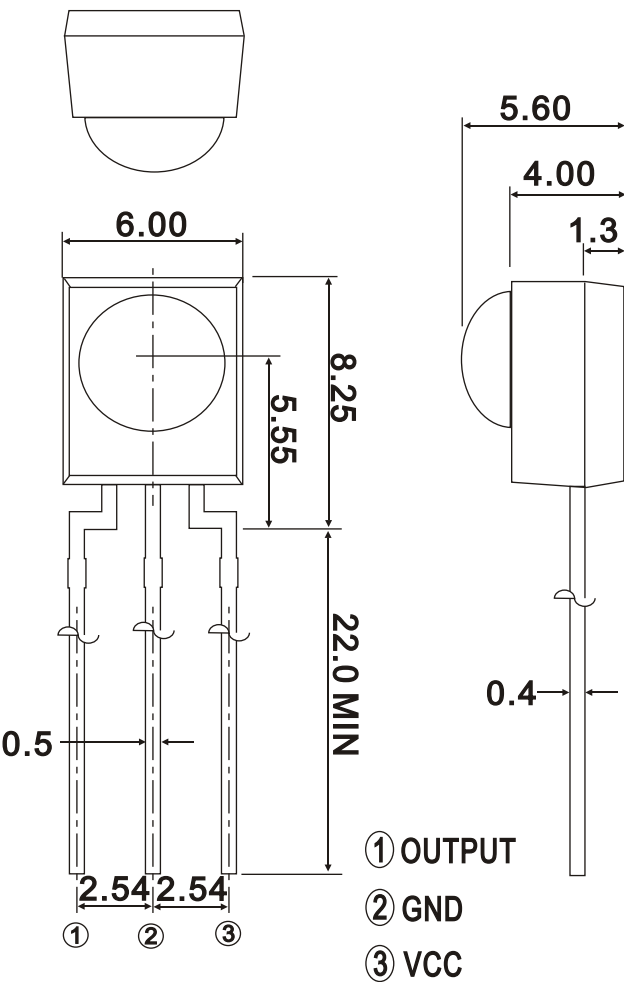
\*1:The ray receiving surface at a vertex and relation to the ray axis in the range of =0°and =45°

\*2:A range from 30cm to the arrival distance. Average value of 50 pulses.

# OPTIC RECEIVER MODULES

## PACKAGE DIMENSIONS:

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NOTE:  
1.All dimensions are in millimeter(inch)  
2.Lead spacing is measured where the lead emerge from the package.  
3.Protruded resin under flange is 1.5mm(.059) max.  
4.Specifications are subject to change without notice.  
5.Tolerance is 0.3mm unless otherwise noted.

HUEY JANN ELECTRONICS INDUSTRY CO., LTD.			DEVICE NO: IR2638	
DWG NO:IR2638	REV: B	DATE:2005/4/15	DWN: C.Y.Lin	CHK: Dundee
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