# Infrared Receiver Control Receiver Module

IRM-37xxM series

Features

- High protection ability against EMI
- Circular lens for improved reception characteristics
- Available for various carrier frequencies
- Min burst length: 6 cycles
- Min gap length: 10 cycles
- Suitable for continuous code
- Low operating voltage and low power consumption
- Optimized immunity against TFT backlight interferences
- High immunity against ambient light
- Long reception range
- High sensitivity
- Pb free and RoHS compliant
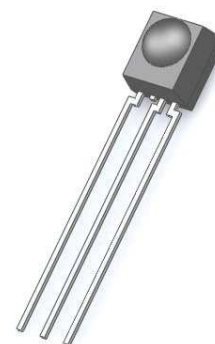
1 2 3

Description

The IRM-37xxM series devices are miniature type infrared receivers which have been developed and designed by using the latest IC technology, specially optimized to suppress interferences from TFT backlight.
The photo diode and preamplifier are assembled onto a lead frame and molded into an epoxy package which operates as an IR filter.
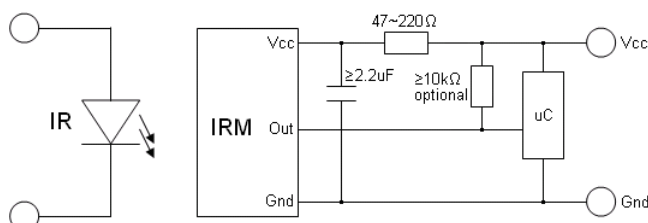The demodulated output signal can directly be decoded by a microprocessor.

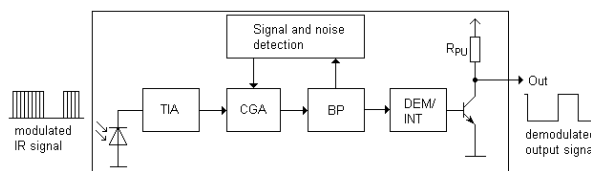Pin Configuration

1. OUT
2. V_{CC}
3. GND

Applications

- AV equipment such as TV, VCR, DVD, CD, MD, etc.
- Short pause time protocols
- Toy applications
- CATV set top boxes
- Multi-media Equipment
- Other devices using IR remote control

Application Circuit

The RC Filter must be connected as close as possible to Vcc and GND pins.
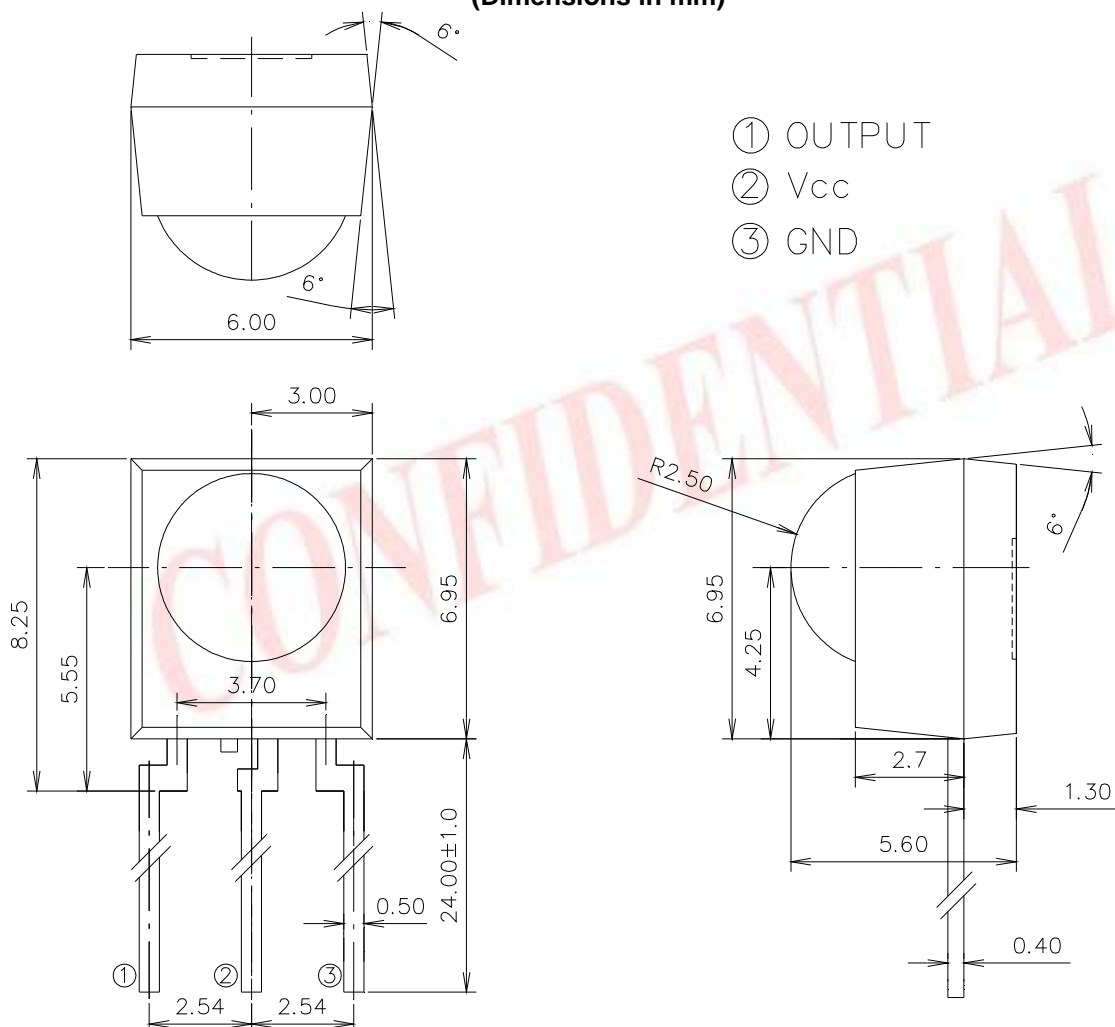
Block Diagram

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Revision   : 1

Release Date:2010-04-14 05:43:36.0

LifecyclePhase:正式發行

Expired Period: Forever

Parts Table

Model No.	Carrier Frequency
IRM-3736M	36 kHz
IRM-3738M	38 kHz
IRM-3740M	40 kHz

Package Dimensions

(Dimensions in mm)

6°

6°

6.00

① OUTPUT
② Vcc
③ GND

3.00

8.25

5.55

6.95

3.70

24.00±1.0

0.50

① ② ③

2.54   2.54

R2.50

6.95

4.25

2.7

1.30

5.60

0.40

6°

Notes:
　　Tolerance unless otherwise mentioned ±0.3mm