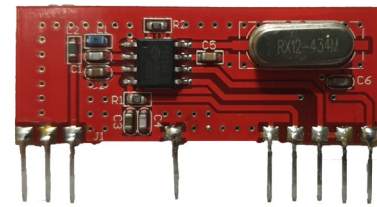
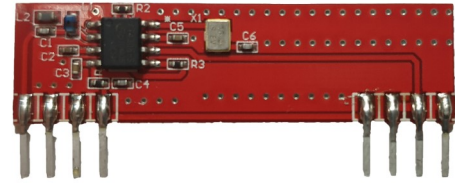


## Super Heterodyne Receiver Module

### Features

- Complete RF Receiver
- ASK Demodulation
- PLL Enhanced Noise immunity
- CMOS / TTL Output
- Stable Operating Frequency
- Sleep Mode 0.5 $\mu$ A
- 3V–5Vdc Operating Voltage
- Low Power Consumption
- High sensitivity
  - -110Bm @315MHz
  - -110dBm @433MHz



### Applications

- Wireless Security Systems
- Car Alarms
- Remote Gate Controls
- Remote Sensing
- Data Capture
- Sensor Reporting

### General Description

The RF Solutions AM Super heterodyne receivers are compact modules, which can be used to capture un-decoded data from any equivalent AM Transmitter

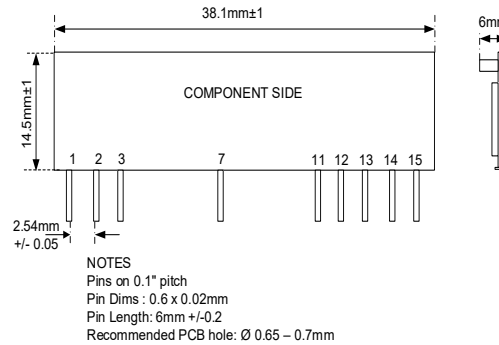
The module exhibits extremely stable electronic characteristics with no adjustable components and very reliable operation. The modules are compatible with RF solutions Ltd. range of AM transmitter to provide a complete Radio Link.

### Ordering Information

Part Number	Description
AM-RX12E-433	SIL AM Transmitter Module 433.92MHz
AM-RX12A-433	SIL AM Transmitter Module 433.92MHz

## Pin Descriptions (AM-RX12E-433)

Pin	Description
1, 12	Supply Voltage
2, 7, 11	Ground
3	External Antenna
13, 14	Data Output
15	Power Down GND = Standby Mode 5V = Normal Operation

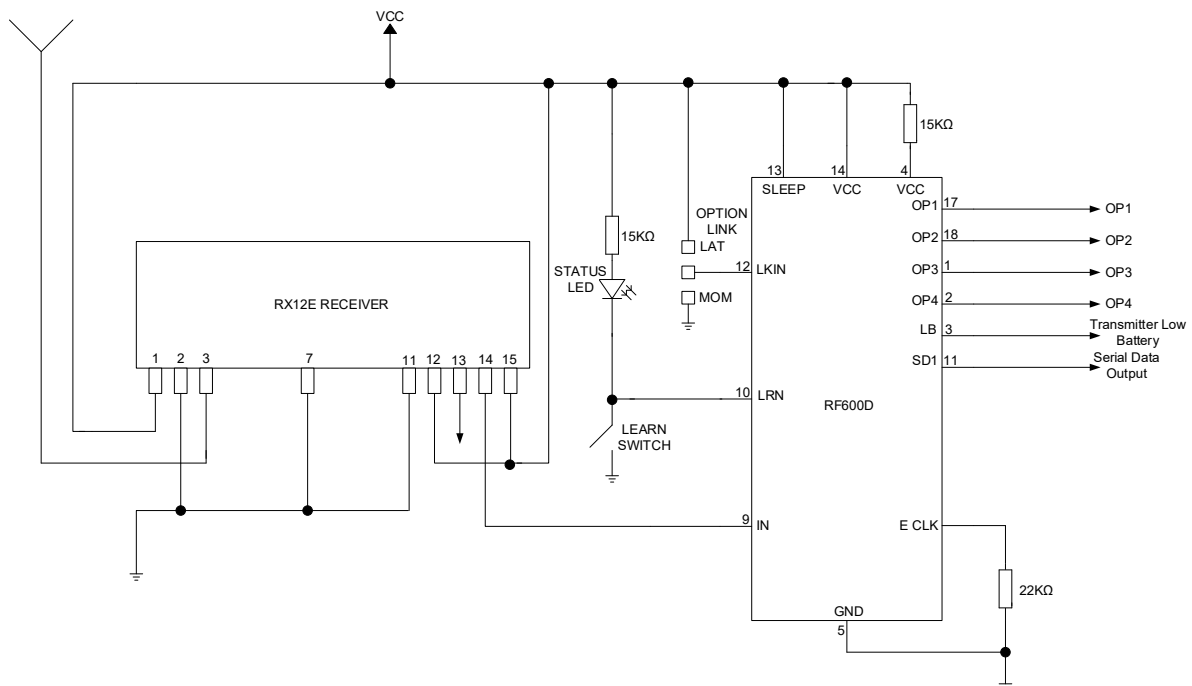


## Electrical Characteristics

Ambient temp = 25°C unless otherwise stated.

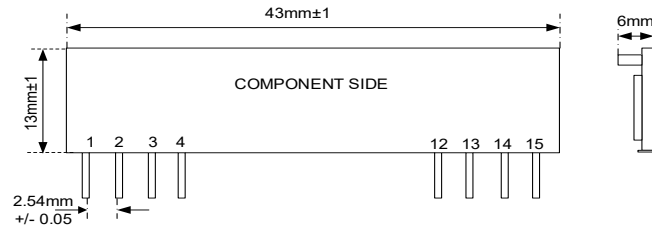
Characteristic	Min	Typical	Max	Dimensions
Supply Voltage	3	5	5.5	Vdc
Supply Current		6		mA
Standby Current (PD=+Vcc)		0.5		µA
RF Sensitivity (Vcc=5V, 1Kbps AM 99% Square wave modulation)		-110		dBm @433MHz
Working Frequency		433.92		MHz
Operating Temperature Range	-40		+85	°C

## Typical Application



## Pin Descriptions (AM-RX12A-433)

Pin	Description
1	ANT
2, 3, 15	Ground
4, 12	Vcc
13, 14	Data Output

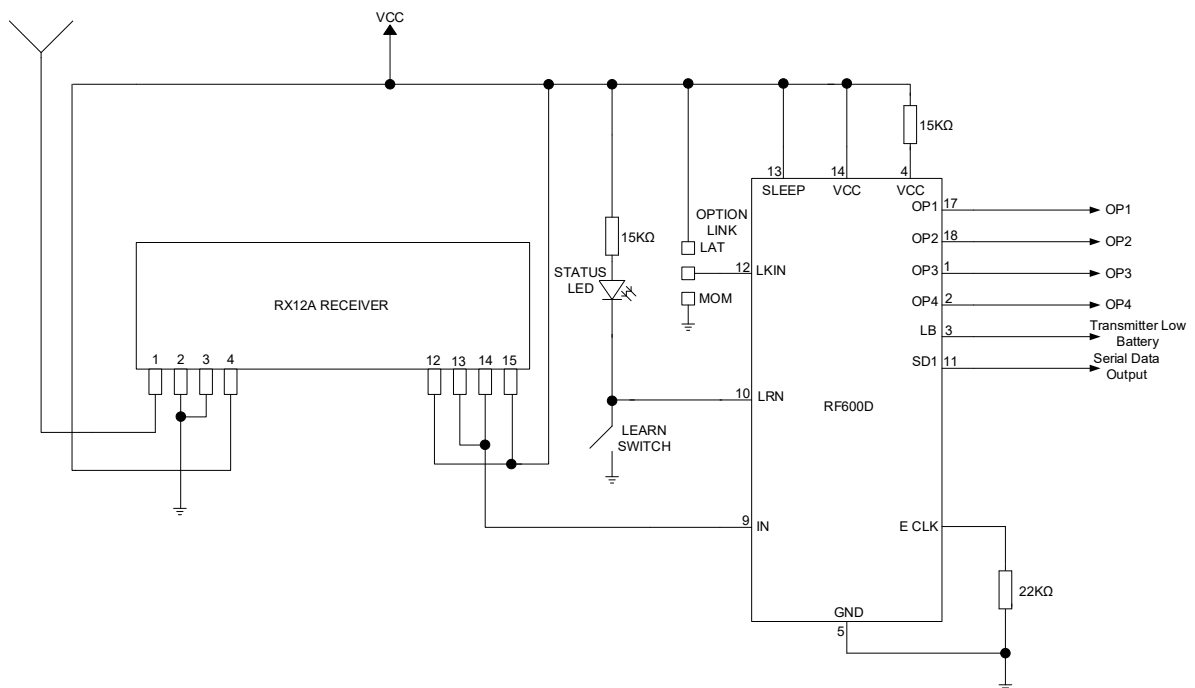


NOTES  
 Pins on 0.1" pitch  
 Pin Dims : 0.6 x 0.02mm  
 Pin Length: 6mm +/-0.2  
 Recommended PCB hole: Ø 0.65 – 0.7mm

## Electrical Characteristics

Ambient temp = 25°C unless otherwise stated.

Characteristic	Min	Typical	Max	Dimensions
Supply Voltage	3	5	5.5	Vdc
Supply Current		6		mA
Standby Current (PD=+Vcc)		0.5		µA
RF Sensitivity (Vcc=5V, 1Kbps AM 99% Square wave modulation)		-110		dBm @433MHz
Working Frequency		433.92		MHz
Operating Temperature Range	-40		+85	°C



## RF Meter

RF Multi Meter is a versatile handheld test meter checking Radio signal strength or interference in a given area.

The Multi-Meter can both transmit and receive signals making it possible to test an installation location for suitability before installing equipment. The Multi-Meter is very hard wearing, long lasting and simple to use. It has 4 selectable frequencies, changeable at the touch of a button. It also has an auto shut off feature for battery saving.



### RF Solutions Ltd. Recycling Notice

Meets the following EC Directives:

#### DO NOT

Discard with normal waste, please recycle.



#### ROHS Directive 2002/95/EC

Specifies certain limits for hazardous substances.



#### WEEE Directive 2002/96/EC

Waste electrical & electronic equipment. This product must be disposed of through a licensed WEEE collection point. RF Solutions Ltd., fulfills its WEEE obligations by membership of an approved compliance scheme.

### Waste Batteries and Accumulators Directive 2006/66/EC

Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

### Environment Agency producer registration number:

WEE/JB0104WV.

#### Disclaimer:

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