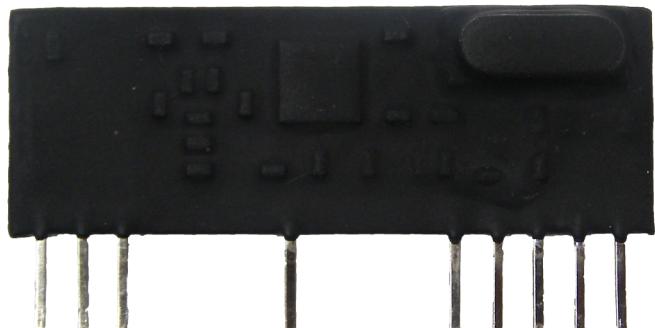




SuperHeterodyne Receiver Module



Features

- Complete RF Receiver
- PLL Enhanced Noise immunity
- CMOS / TTL Output
- Stable Operating Frequency
- Sleep Mode $0.5\mu\text{A}$
- 5Vdc Operating Voltage
- Analog RSSI Output
- Low Power Consumption
- High sensitivity
 - -113dBm @315MHz
 - -108dBm @433MHz

Applications

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

General Description

The RF Solutions AM Superheterodyne Receivers are compact modules, which can be used to capture undecoded data from any equivalent AM Transmitter.

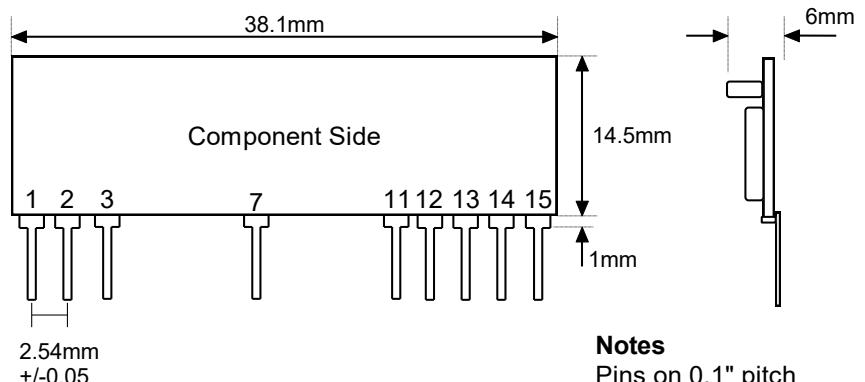
The module exhibits extremely stable electronic characteristics with no adjustable components and very reliable operation. The modules are compatible with RF Solutions Ltd. Range of AM transmitter to provide a complete Radio Link.

Ordering Information

Part Number	Description
AM-RRQ3-433P	DIL AM Transmitter Module 433.92MHz

Pin Descriptions

Pin	Description
1, 12	Supply Voltage
2, 7, 11	Ground
3	External Antenna
13	RSSI
14	Data Output
15	Power Down 0 = Standby Mode 5V = Normal Operation



Notes

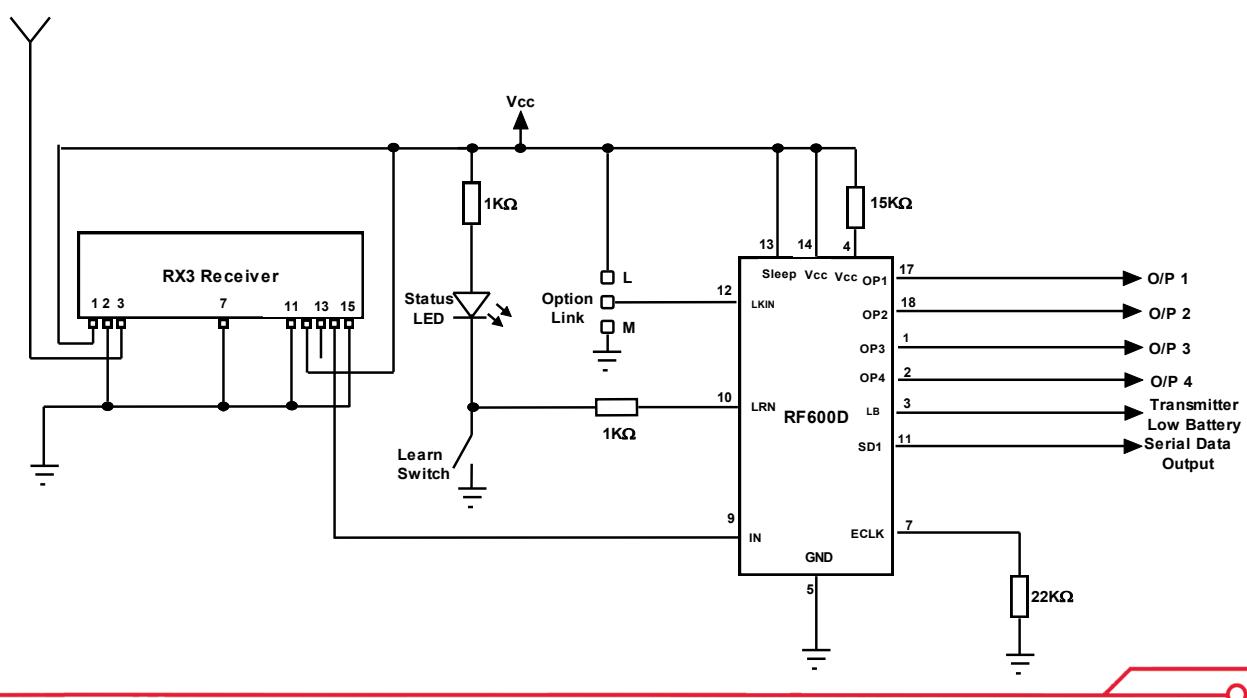
Pins on 0.1" pitch
Pin Dims : 0.6 x 0.02mm
Pin length: 6mm +/- 0.2
Recomended PCB hole Ø 0.65-0.7mm

Electrical Characteristics

Ambient temp = 25°C unless otherwise stated.

Characteristic	Min	Typical	Max	Dimensions
Supply Voltage	3.3	5	8	Vdc
Supply Current		6		mA
Standby Current (PD=+Vcc)		0.5		µA
RF Sensitivity (Vcc=5V, 1Kbps AM 99% Square wave modulation)		-108		dBm @433MHz
Working Frequency		433.92		MHz
Turn On Time	25	30		ms
RSSI DC Output voltage		0.4—2		V
RSSI Response Slope @ -108dBm to -40dBm		25		mV/dBm
Operating Temperature Range	-40		+85	°C

Typical Application



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