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ISM band ASK / OOK receiver Module

The RMO-010U ISM band data receiver is an ideal design module used for Car Security System, Home Security System, and Remote controller, etc.

Main Function

- Complete with L/C Filter design
- Frequency Band: 315/434MHz
- Any 2 Lever formats
- Data rate from 300bps to 4Kbps.
- High sensitivity up to -103 dbm
- Low power consume
- Wide operate temperature from -20°C -- +70°C
- Small size
- Low cost



Module size 44 X12 X 7mm

Specification

Description	Part No: RMF-600U
Frequency stability	30ppm at 25°C
Operation frequency	315MHz, 434MHz.
Data Rate	300bps to 4Kbps.
Modulation	ASK and OOK
Channel spacing	200Khz.
Sensitivity	-103dBm at 434MHz by 1200bps
Working Voltage	DC 5V ± 20%
Power consumption	4mA
Working temperature range	-20 to +70°C
Module Size	44mm X 12mm X 7mm.
Weight	3 grams.

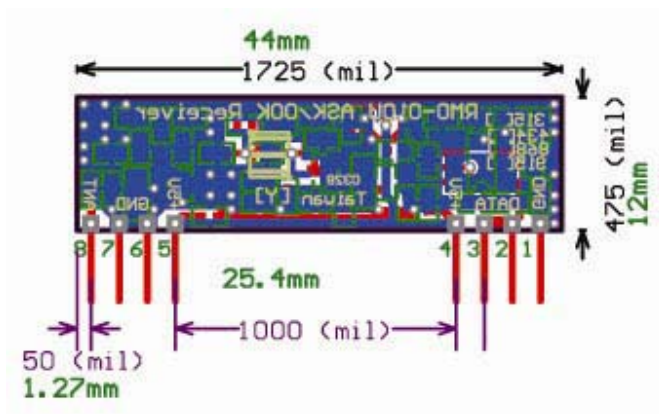


Pin Description

Pin Number	Name	Description
1	GND	Ground
2	Date	Received data output
3	Data	Same with Pin#2
4	VCC	Power supply DC + 5V
5	VCC	Same with Pin #4
6	GND	Ground
7	GND	Ground
8	ANT	Antenna Input

Pin Lead size: 2.54mm 8 pin single

PCB Size and Pin Assignment



Application note for the wire length of antenna

315MHz	433.92MHz
$\lambda = 95\text{CM}$	$\lambda = 70\text{CM}$
$\frac{1}{2}\lambda = 47.5\text{CM}$	$\frac{1}{2}\lambda = 47.5\text{CM}$
$\frac{1}{4}\lambda = 23\text{CM}$	$\frac{1}{4}\lambda = 17.5\text{CM}$
$\frac{1}{2}\cdot\frac{1}{4}\lambda = 12\text{CM}$	$\frac{1}{2}\cdot\frac{1}{4}\lambda = 8.75\text{CM}$