

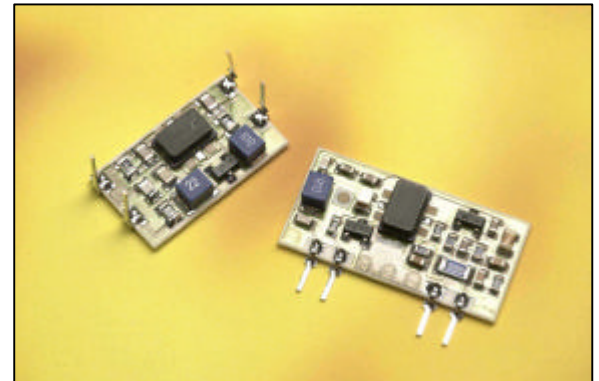


AM Hybrid Transmitter

AM-RT4-XXX AM-RT5-XXX

Features

- Complete RF Transmitter
- Transmit Range Up To 70m
- CMOS / TTL Input
- Available In DIL or SIL Package
- No Adjustable Components
- Very Stable Operating Frequency
- Low Current Consumption (Typ 4mA)
- Low Spurious Emissions (-35dbc)
- Wide Operating Voltage (2-14v)
- Available As 315, 418 Or 433 MHz



Applications

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

Description

The R F Solutions Ltd. AM hybrid transmitter module provides a complete RF transmitter which can be used to transmit data at up to 4KHz from any standard CMOS/TTL source.

The module is very simple to operate and offers low current consumption (typ. 4 mA). Data can be supplied directly from a microprocessor or encoding device, thus keeping the component count down and ensuring a low hardware cost.

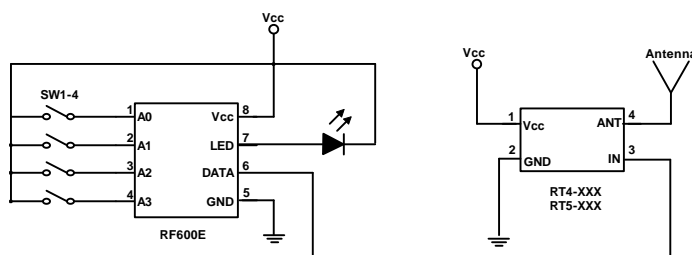
The module exhibits extremely stable electronic characteristics due to the use of 'Thick-Film' hybrid technology, which uses no adjustable components and ensures very reliable operation.

The modules are compatible with R F solutions Ltd. range of AM receivers to provide a complete solution.

Typical Application

For further information on this circuit please see datasheet DS600

Transmitter Circuit



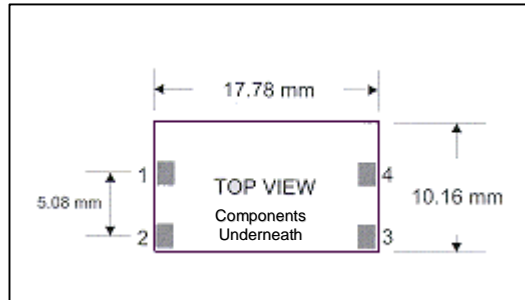


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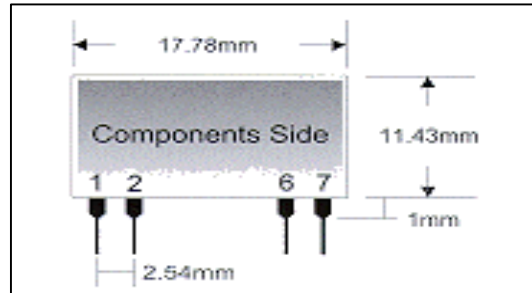
AM-RT4-XXX AM-RT5-XXX

Mechanical Dimensions

RT4



RT5



Pin Descriptions

RT4 Pin	RT5 Pin	Name	Description
1	7	Vcc	Supply Voltage
2	6	GND	Ground, Connect to RF earth return path
3	2	IN	Data input
4	1	ANT	External Antenna

Electrical Characteristics

Ambient temp = 25°C unless otherwise stated.

Characteristic	Min.	Typ.	Max.	Dimensions
Supply Voltage	2		14	Vdc
Supply Current (Vcc=5V IN=1kHz)		4		mA
Supply Current (Vcc=5V IN=DC)		50		nA
Working Frequency	303.8		433.92	MHz
Frequency Tolerance			+/-100	KHz
RF Output Power into 50Ω (Vcc=5V)		0		-dBm
Harmonic Spurious Emissions		-30		-dBc
Input Voltage High	2		Vcc	V
Time from Power on to data transmission		10		µSec
Data Rate	50		4000	Hz
Operating Temperature	-25		+80	°C

Part Number	Description
AM-RT4-XXX	DIL AM Transmitter Module XXX MHz
AM-RT5-XXX	SIL AM Transmitter Module XXX MHz

XXX = 315, 418, 433MHz, Other Frequencies available on request

Should you require further assistance, please call;

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R F Solutions Ltd is a member of the Low Power radio Association



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