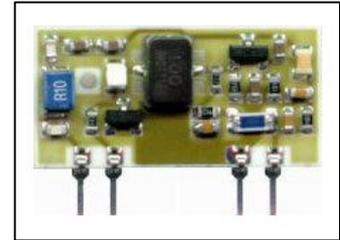


- FM Radio Transmitter
- Transmit Range Up To 250m
- CMOS/TTL Input
- SIL Package
- No Adjustable Components
- Very Stable Operating Frequency
- Low Current Consumption (Typ 8mA)
- Wide Operating Voltage (2.7-14V)
- Available As 315, 418 Or 433MHz
- Compatible With RF Solutions FM Receivers



Applications

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

Description

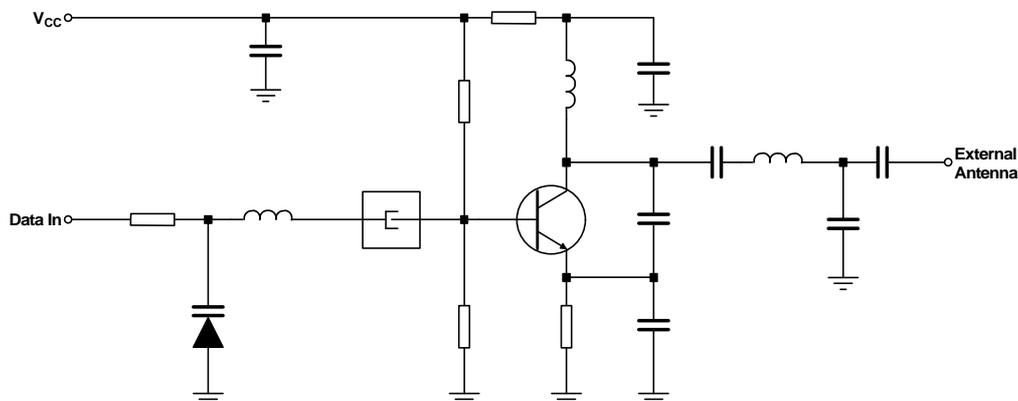
The R F Solutions Ltd. FM hybrid transmitter module provides a complete RF transmitter which can be used to transmit data at up to 9.6KHz from any standard CMOS/TTL source.

The module is very simple to operate and offers low current consumption (typ. 8mA). 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 FM receivers to provide a complete solution.

Circuit Schematic

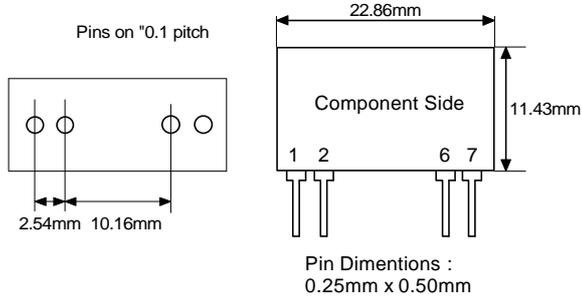




FM SIL TRANSMITTER MODULE

FM-RTF3-XXX

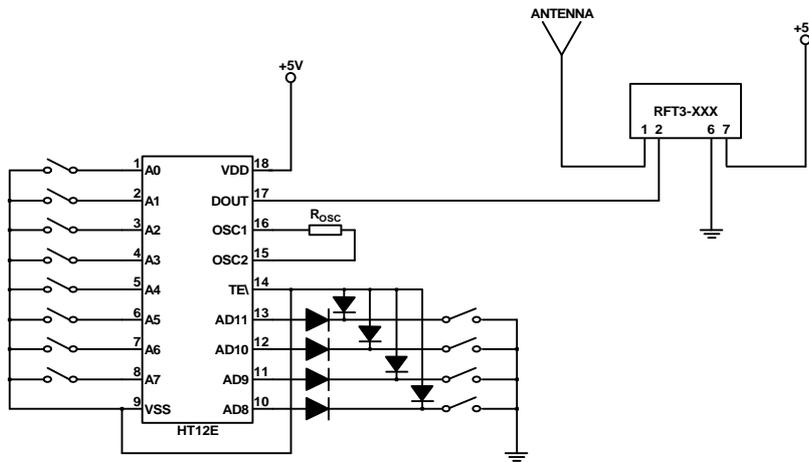
Mechanical Dimensions



Pin Description

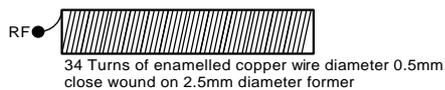
Pin Number	Name	Description
1	EA	External Antenna
2	IN	Data input
6	GND	Ground, Connect to RF earth return path
7	Vcc	Supply Voltage

Typical Application

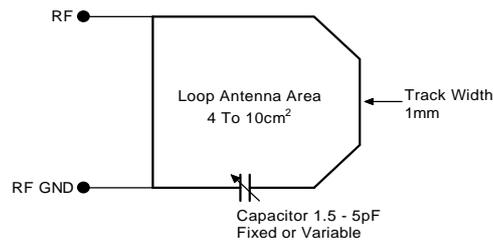


Antenna Configuration

Helical Coil Antenna



Loop Antenna



Whip Antenna





Technical Specifications

ELECTRICAL CHARACTERISTICS	MIN	TYPICAL	MAX	DIMENSION
Supply Voltage	2.7		14	VDC
Supply Current (Vcc = 5V, IN=1KHz Square Wave)		8		mA
Frequency Deviation		50		KHz
RF Output into 50Ω (Vcc=5V)		7		dBm
Harmonic Spurious Emissions		-50		dBc
Input High Voltage	2.5		Vcc	V
Time from Power on to data valid			200	μS
Max Data Rate			9.6	KHz
Operating Temperature	-25		+80	°C

Part Numbering

Part Number	Description
FM-RFT3-315	SIL FM Transmitter Module 315 MHz (Future Product)
FM-RFT3-433	SIL FM Transmitter Module 433 MHz

For more information or general enquiries, please contact our official UK distributor;

**RF Solutions Ltd.,
Unit 21, Cliffe Industrial Estate,
South Street,
Lewes,
E Sussex, BN8 6JL. England**

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Email sales@rfsolutions.co.uk <http://www.rfsolutions.co.uk>

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