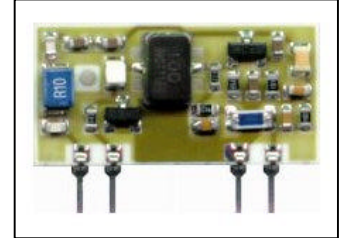




- COMPLETE FM TRANSMITTER
- TRANSMIT RANGE UP TO 250m
- CMOS/TTL INPUT
- SIL PACKAGE
- NO ADJUSTABLE COMPONENTS
- VERY STABLE OPERATING FREQUENCY
- LOW CURRENT CONSUMPTION (TYP 8mA)
- WIDE OPERATING VOLTAGE (2.7-14V)
- AVAILABLE AS 315, 418 OR 433 MHz
- COMPATIBLE WITH RF SOLUTIONS FM RECEIVERS



Applications

- WIRELESS SECURITY SYSTEMS
- CAR ALARMS
- REMOTE GATE CONTROLS
- REMOTE SENSING
- DATA CAPTURE
- SENSOR REPORTING

Description

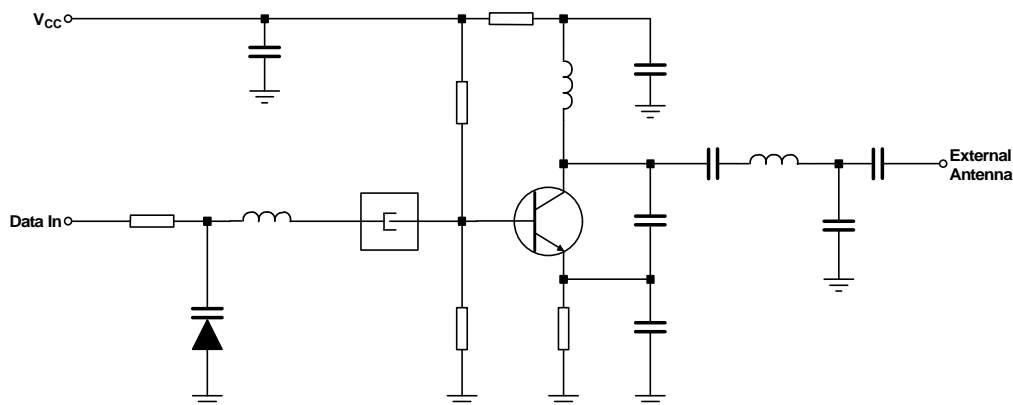
The R F Solutions Ltd. FM hybrid transmitter module provides a complete RF transmitter which can be used to transmit data at up to 9.6 KHz from any standard CMOS/TTL source.

The module is very simple to operate and offers low current consumption (typ. 8 mA). Data can be supplied directly from a microprocessor or encoding device, thus keeping the component count down and ensuring a low hardware cost.

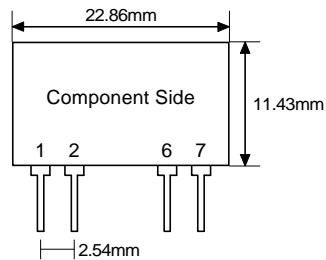
The module exhibits extremely stable electronic characteristics due to the use of 'Thick-Film' hybrid technology, which uses no adjustable components and ensures very reliable operation.

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

Circuit Schematic



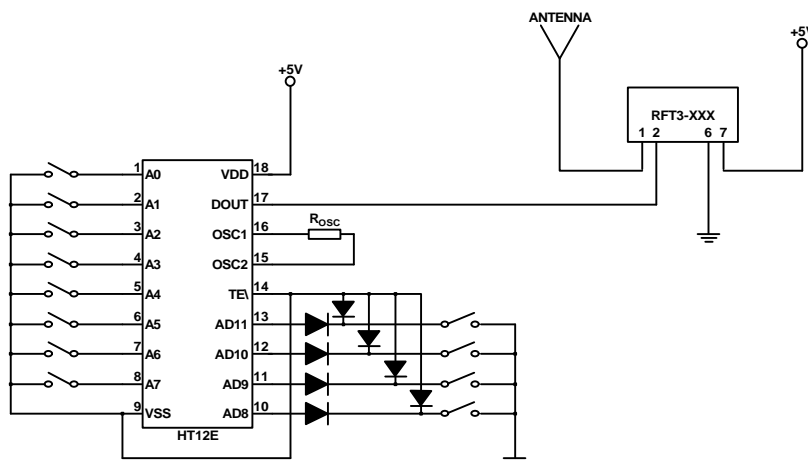
Mechanical Dimensions



Pin Description

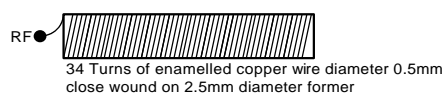
Pin Number	Name	Description
1	EA	External Antenna
2	IN	Data input
6	GND	Ground, Connect to RF earth return path
7	Vcc	Supply Voltage

Typical Application

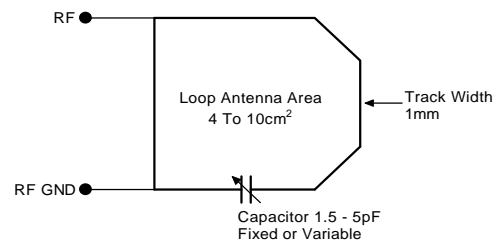


Antenna Configuration

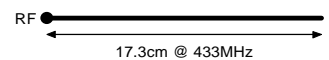
Helical Coil Antenna



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
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
FM-RFT3-433	SIL FM Transmitter Module 433 MHz

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

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