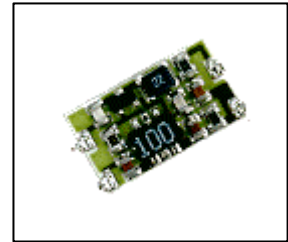


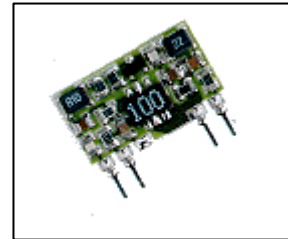
## FEATURES

- 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
- COMPATIBLE WITH RF SOLUTIONS RECEIVERS



## 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 4 kHz from any standard CMOS/TTL source.

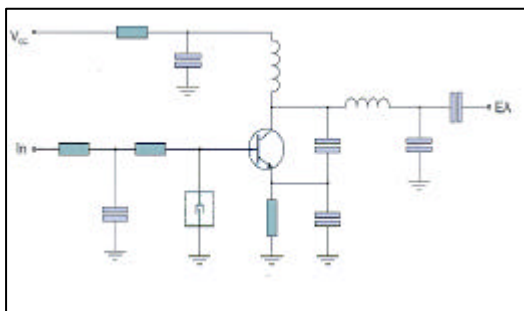
The module is very simple to operate and offers low current consumption (typ. 4 mA). Data can be supplied directly from a microprocessor or encoding device, thus keeping the component count down and ensuring a low hardware cost.

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.

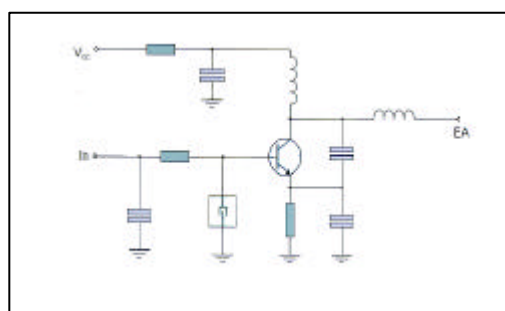
The modules are compatible with R F solutions Ltd. range of AM receivers to provide a complete solution.

## CIRCUIT SCHEMATICS

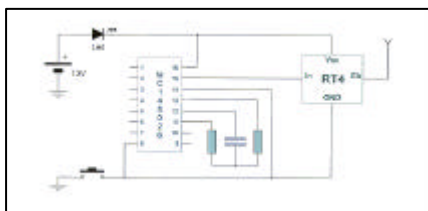
RT4



RT5

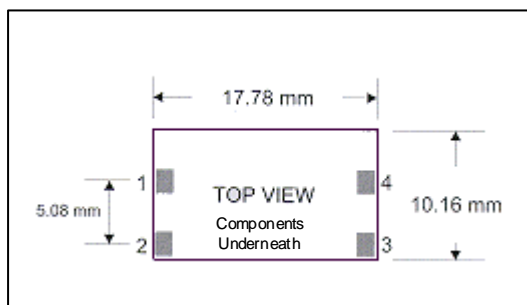


## TYPICAL APPLICATION

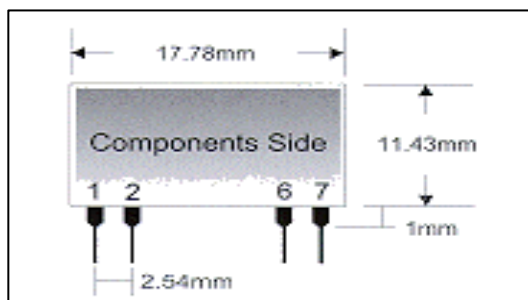


## MECHANICAL DIMENSIONS

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	EA	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
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 NUMBERING

PART Number	Description
AM-RT4-418	DIL AM Transmitter Module 418 MHz
AM-RT4-433	DIL AM Transmitter Module 433 MHz
AM-RT5-418	SIL AM Transmitter Module 418 MHz
AM-RT5-433	SIL AM Transmitter Module 433 MHz

Should you require further assistance, please call;

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**Tel +44 (0)1273 898 000. Fax +44 (0)1273 480 661.**

**Email [sales@rfsolutions.co.uk](mailto:sales@rfsolutions.co.uk)**

**<http://www.rfsolutions.co.uk>**

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



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