



TR24P

2.4 GHz

ISM Band Transceiver



Ideal for 2.4GHz Wireless Remote-control.

The TR24P is a 2.4GHz multi-channel transceiver RF module
It's designed specifically for data of reception and transmission

Applications

- **Open Space Max 1200m**
- Toys
- Remote Control
- Home and factory automation
- Wireless security and access control
- Battery Powered wireless devices
- Wireless Voice / headsets / Skype earphone and VOIP



P.S : It must added to extra electric circuit for wireless voice of application

Absolute Maximum Ratings

Rating	Value	Units
VDD Supply Voltage	2.5 to 3.7	V
Operating temperature	-40 to +85	
Input RF Level	+10	dBm
Frequency Hopping	81	channels

Characteristics

Paramater	Symbol	Specification			Unit	Test Condition
		Min.	Typ	Max.		
Data Rate				1 M	bps	
Current Consumption-TX	I _{DD_TX}		120		mA	POUT=nominal output power
Current Consumption-RX	I _{DD_RX}		24		mA	
Current Consumption-SLEEP	I _{DD_SLP}		3.5		uA	
Operating Frequency	F _{OP}	2400		2482	MHz	
Receiver sensitivity			-90	-80	dBm	Meas.AT antenna pir
RF Output Power	PAV		12		dBm	Power Level 0



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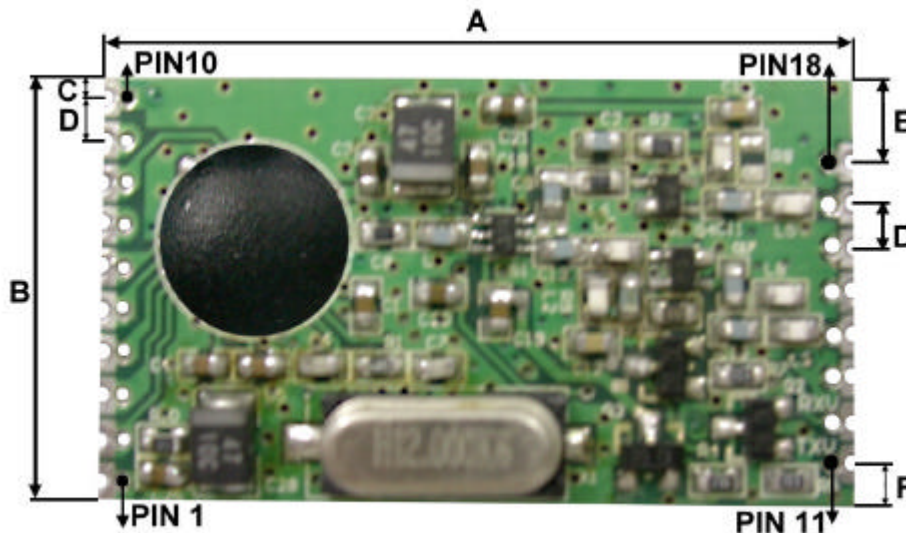
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Mechanical Characteristics

TR24P (H) : IC Chip
TR24P (W) : IC Package

	PIN	Description		PIN	Description
PIN 1	+3.3V		PIN 11	TXV	TX active - high
PIN 2	SPI_MISO	SPI data out	PIN 12	RXV	RX active - high
PIN 3	RESET_n	Reset input, active low	PIN 13	GND	
PIN 4	SPI_CLK	SPI data in	PIN 14	RXANT	ANT
PIN 5	SPI_MOSI	SPI data in	PIN 15	GND	
PIN 6	SPI_SS	SPI slave select input	PIN 16	GND	
PIN 7	FIFO_FLAG	FIFO full/empty	PIN 17	TXANT	ANT
PIN 8	PKT_FLAG	Packet TX/RX flag	PIN 18	GND	
PIN 9	BRCLK	clk. out. (optional)			
PIN 10	GND				

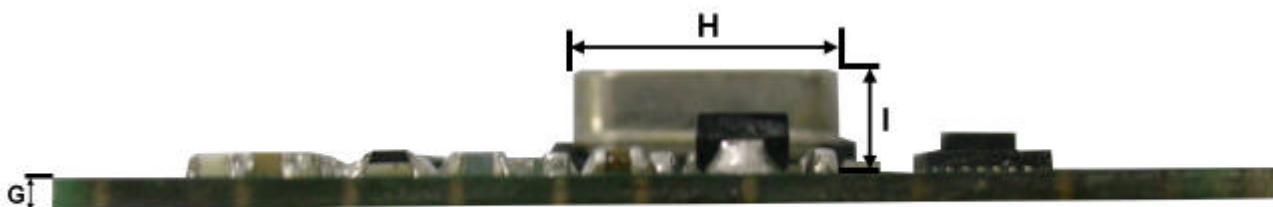




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Dimensions	Millimeters	Dimensions	Millimeters
A	35±0.25mm	F	2±0.05mm
B	20±0.25mm	G	1±0.05mm
C	1±0.05mm	H	10±0.05mm
D	2±0.05mm	I	4±0.05mm
E	4±0.05mm		