

port is well matched to standard 50 Ohm impedance. Users don't need to spend time in RF circuit design and just choose suitable antennas for different applications. DRF1262T operates at 1.8~3.3V with extra low standby current which makes it suitable for battery powered-up applications. DRF1262T adopts ± 1 ppm high accuracy TCXO which makes it possible to use narrower bandwidth to achieve the high sensitivity up to -147dBm. DORJI also provides DRF1268T for 433MHz TCXO version of sx1268 module. Users can use the testing kit DAD06 to test the basic function on ST Nucleo-L053R8 or Arduino UNO board.

PIN FUNCTIONS

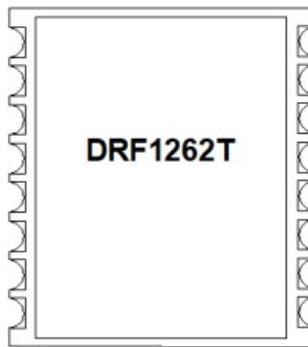


Figure 1: DRF1262T Pin Layout

PIN	Name	Function	Description
1	ANT	ANT	50 Ohm Impedance port
2	GND	Ground	Ground (0V)
3	SW	Input	One control pin of RF switch
4	GND	Ground	Ground (0V)
5	GND	Ground	Ground (0V)
6	NC	NC	No connection
7	GND	Ground	Ground (0V)
8	VDD	Power	Normal 3.3V
9	DIO2	Output	It is connected to one control pin of RF switch internally
10	DIO1	Input/Output	Multipurpose digital IO
11	BUSY	Input/Output	Busy indicator
12	RST	Input/Output	Reset signal, active low
13	MISO	Output	SPI slave output
14	MOSI	Input	SPI slave input
15	SCK	Input	SPI clock
16	NSS	Input	SPI Slave Select

Table 1: DRF1262T Pin Functions

ELECTRICAL SPECIFICATIONS

Symbol	Parameter (condition)	Min.	Typ.	Max.	Units
VCC	Supply Voltage	1.8	3.3	3.6	V
Temp	Operating temperature range	-40	25	85	°C
Freq	Frequency range @ 868MHz	862	868	878	MHz
	Frequency range @ 915MHz	902	915	928	MHz
IDD_R	Current in receive mode		5.8		mA
IDD_T	Current in transmit mode		125		mA
IDD_S	Current in sleep mode.			1	uA
Pout	Max. output power @868Mhz		20.6		dBm
	Max. output power @915Mhz		20.2		dBm
Sen	Receiver sensitivity @868MHz			-147	dBm
	Receiver sensitivity @915MHz			-147	dBm
ZANT	Antenna Impedance		50		Ohm
V _{TCXO}	TCXO supply voltage	1.7	1.8	1.9	V

Table 2: DRF1262T Electrical Specifications

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min.	Max.	Units
VCC	Supply Voltage	-0.3	3.6	V
VI	Input voltage	-0.3	VCC+0.3	V
VO	Output voltage	-0.3	VCC+0.3	V
T _{ST}	Storage temperature	-40	125	°C

Table 3: DRF1262T Maximum Ratings

MODULE SCHEMATIC

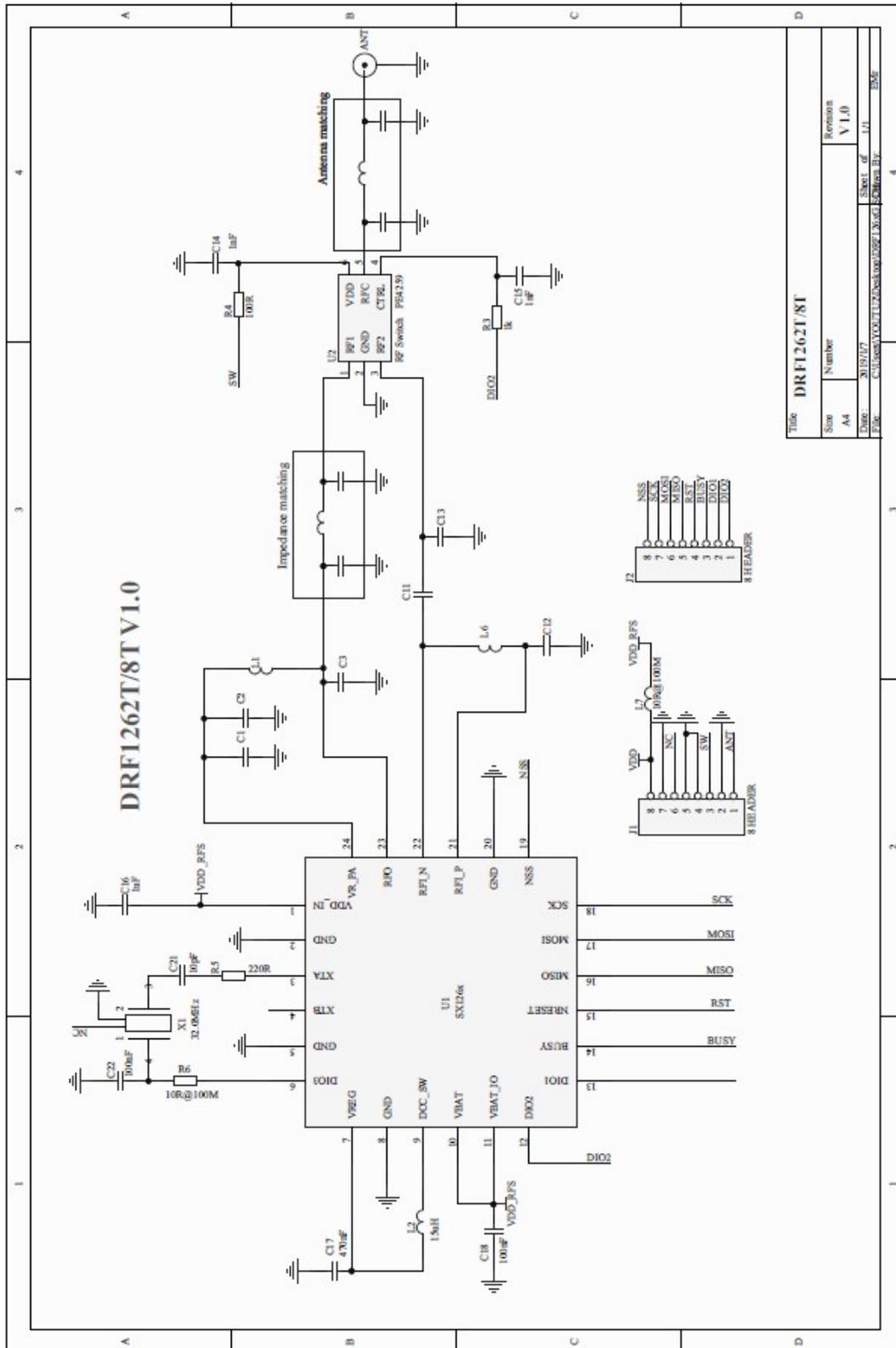


Figure 2: DRF1262T Schematic

MECHANICAL DATA

Unit: mm

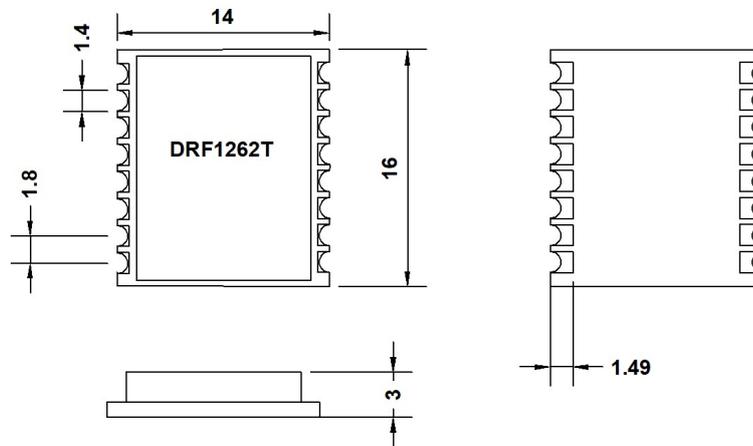


Figure 3: Mechanical Dimension

REFERENCE DOCUMENTS

1. [SX1262 Datasheet](#)
2. [LoRa Calculator](#)
3. [LoRa Low Energy Design Guide](#)
4. [LoRa Modem Designer's Guide](#)
5. [SX1262 Development Kit User Guide](#)

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