

# S62F Ver.03

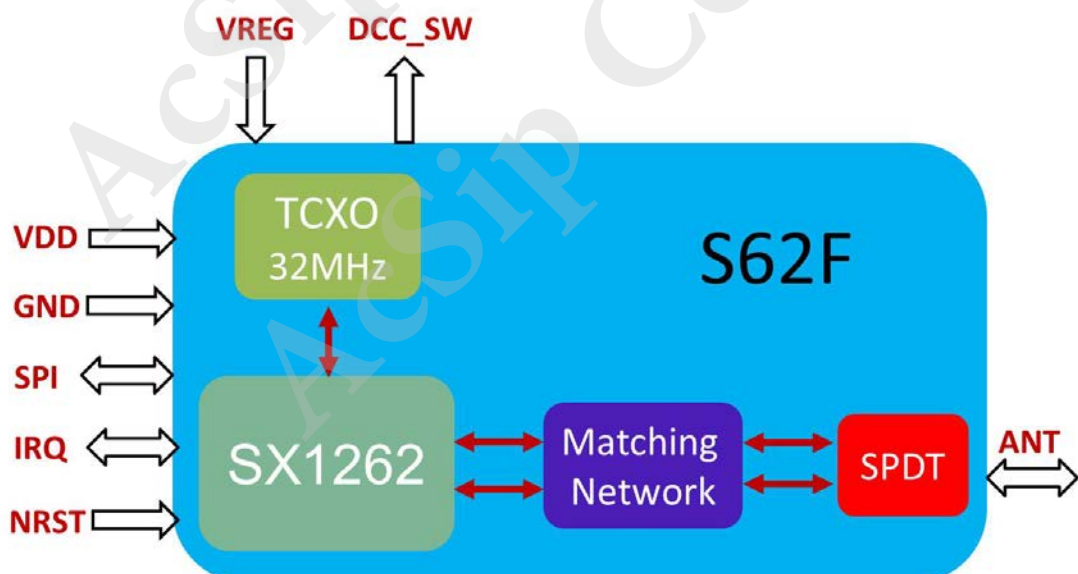
## Product Brief



### FEATURE

- Small footprint: 9 mm x 8 mm x 1.26 mm(Typ.)
- LoRa RF Transceiver Module
- + 22 dBm Max. RF Output Power
- High sensitivity: down to -137 dBm@BW=125kHz,SF=12
- Low power consumption
- TCXO= 32MHz embedded
- Programmable bit rate up to 62.5 kbps @LoRa 、 300kbps @FSK

### Block Diagram



# Product Brief

Technical Specification	
Model Name	S62F
Product Description	LoRa RF Transceiver Module
Package	LGA type
Host Interface	SPI
Dimension	9 mm x 8 mm x 1.26 mm(Typ.)
Operation Conditions	
Operating Voltage	<ul style="list-style-type: none"> <li>■ 3.3V</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>■ Storage : -50°C ~ +105°C</li> <li>■ Operating : -40°C ~ +85°C</li> <li>■ Low Power Dissipation<sup>(*Note)</sup> : -40°C ~ +95°C</li> </ul>
Humidity	<ul style="list-style-type: none"> <li>■ Operating : 10 ~ 95% (Non-Condensing)</li> <li>■ Storage : 5 ~ 95% (Non-Condensing)</li> </ul>
Electrical Specifications	
Frequency	865MHz ~928MHz
Band Width	7.8~500KHz
Tx Power	+22dBm Max.
Sensitivity	< -137dBm @BW=125kHz, SF=12

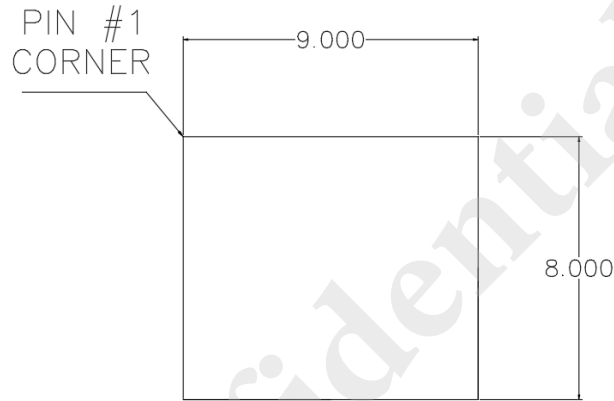
\*Note: Low power dissipation means low TX duty cycle and low GPIO driving and sinking current.

## PIN Definition

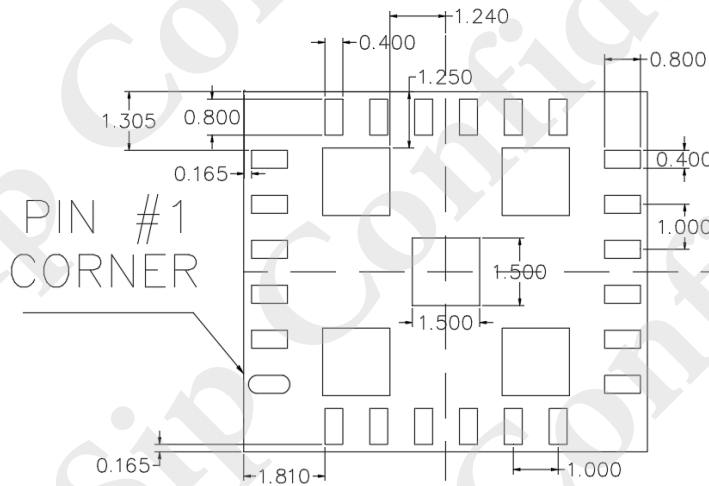
Pin No.	Pin Name
1	GND
2	VREG
3	DCC_SW
4	VDD
5	DIO 1
6	BUSY
7	NRST
8	DIO2 / RF_Switch_Control
9	MISO
10	MOSI
11	SCK
12	NSS
13	RF_VC1
14	GND
15	RF_ANT
16	GND
17	RF_VC2
18	GND
19	GND
20	GND
21	GND
22	GND
23	GND
24	GND
25	EGND
26	EGND
27	EGND
28	EGND
29	EGND

Mechanical Dimension(Typ.)

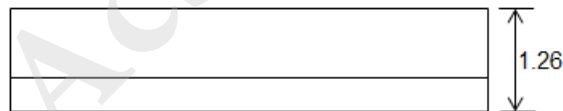
Unit: mm



Top View



Bottom View



Side View