



HANGZHOU SAPPLAND MICROELECTRONICS TECHNOLOGY CO., LTD

SAW Device Data Sheet

Band 5 RX Filter / Unbalanced / 1109

PN: SPSR005U01C

Rev: 1.2

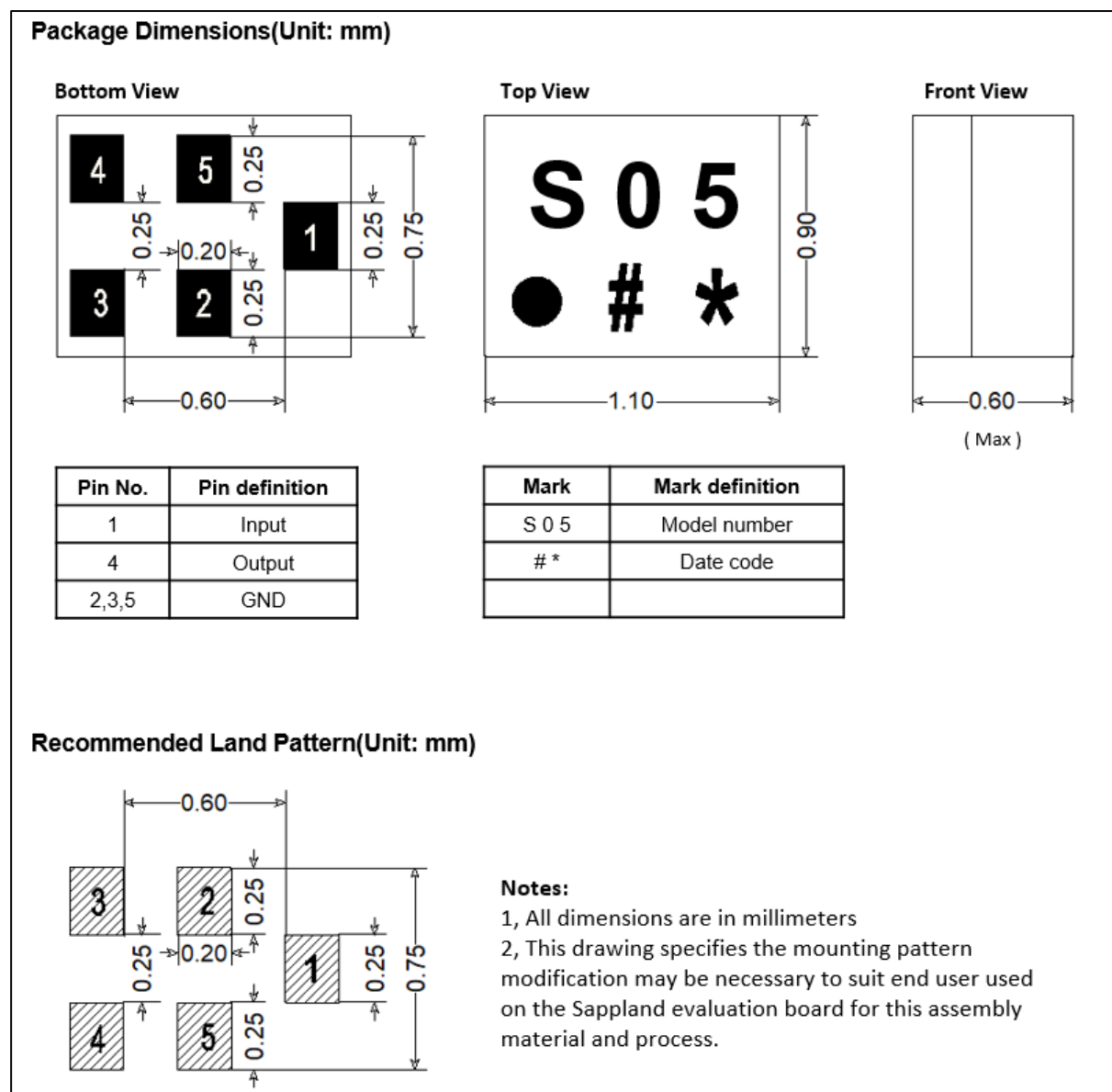
Feature:

- Unbalanced
- RoHS compatible

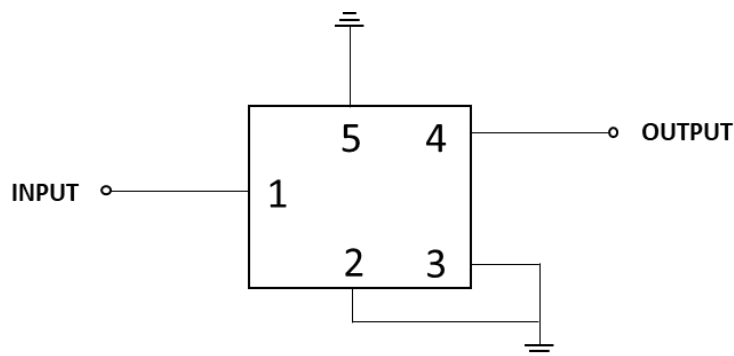
1.Revision History

Revision	Date	Comments
1.0	Mar-10-2021	Initial release
1.1	Apr-30-2021	Revised address
1.2	Dec-08-2023	Update DS format

2.Package and Pin map



Application circuit (with idea components)



3. Performance

3.1 Absolute maximum ratings

Item	Rating	Note
Storage Temperature	-40 ~ 85 °C	
Operating Temperature	-20 ~ 85 °C	
Input Power Max	15 dBm	
D.C Voltage between the terminals	3 V	25±2deg.C

3.2 Electrical specification

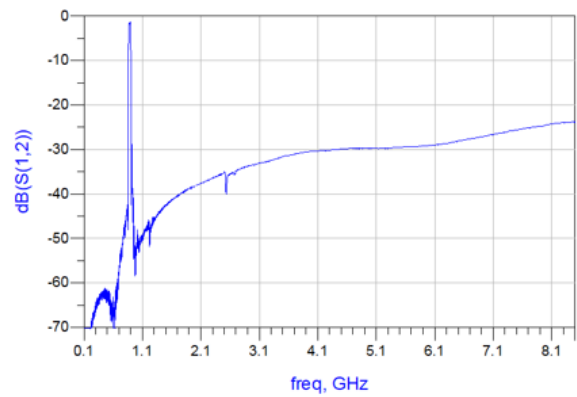
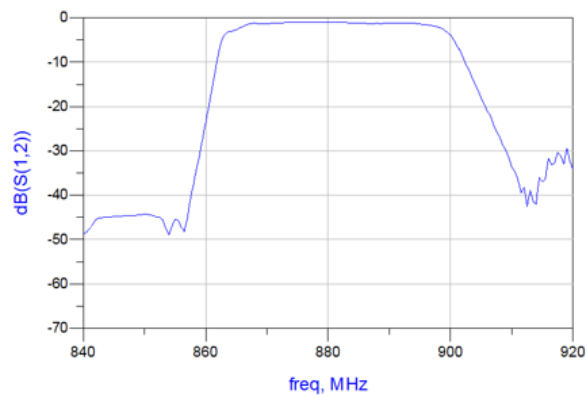
Electrical specification (-20 to +85 °C)

TX to ANT		Characteristics			Unit	Note
		min	Typ. ¹	max		
Center Frequency		-	881.5	-	MHz	
Insertion Loss	869.00 ~ 894.00 MHz		1.7	2.0	dB	
Amplitude ripple	869.00 ~ 894.00 MHz		0.5	1.1	dB	
VSWR	869.00 ~ 894.00 MHz		1.9	2.2	-	Input
	869.00 ~ 894.00 MHz		1.9	2.2	-	Output
Absolute attenuation	779.00 ~ 804.00 MHz	46	49		dB	
	824.00 ~ 849.00 MHz	42	44		dB	
	846.50 ~ 854.00 MHz	30	44		dB	
	909.00 ~ 979.00 MHz	20	29		dB	
	1693.00 ~ 1788.00 MHz	35	38		dB	
	2400.00 ~ 2500.00 MHz	30	33		dB	
	2500.00 ~ 3500.00 MHz	26	29		dB	
	4000.00 ~ 6000.00 MHz	23	29		dB	

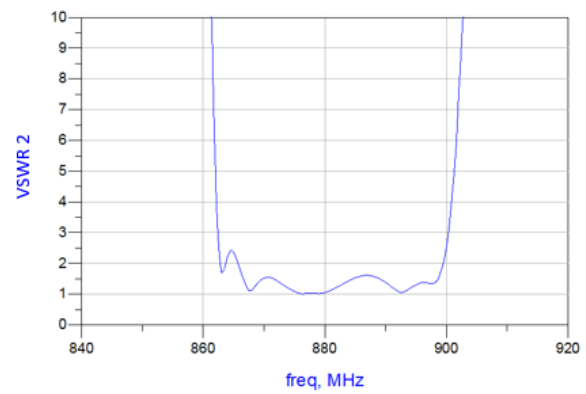
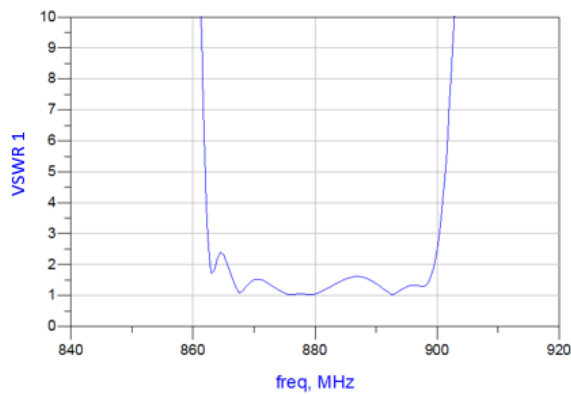
1) Typical value at 25±2deg.C

3.3 Plots

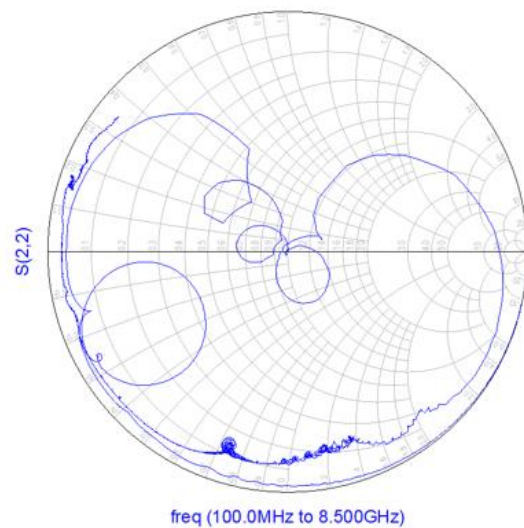
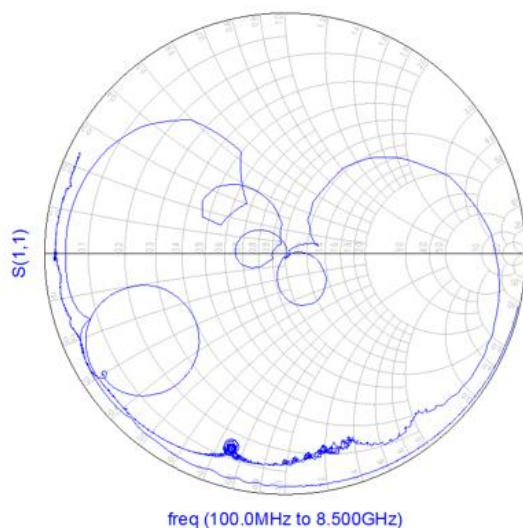
Frequency response



VSWR



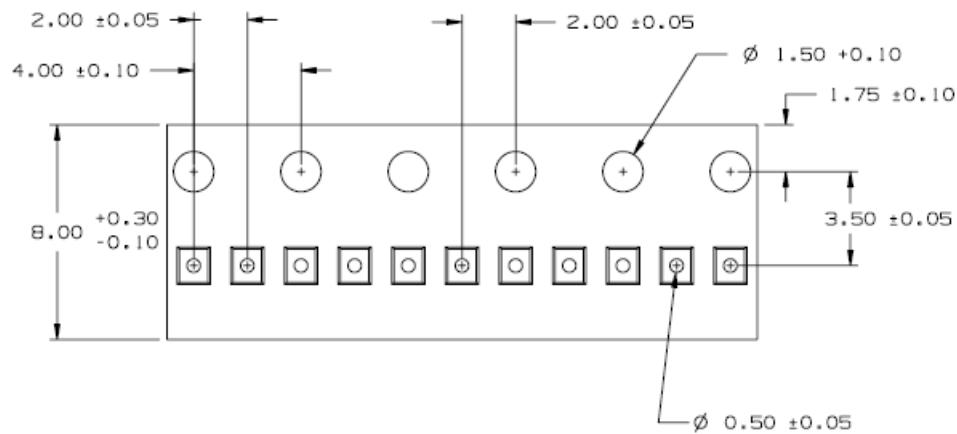
Smith chart



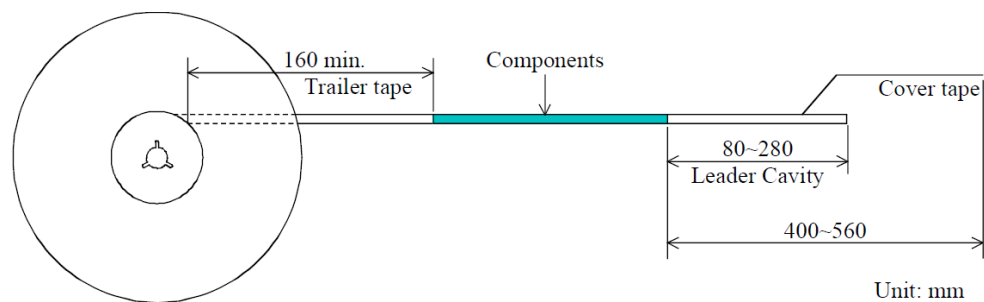
4.Packing Information

Reeling Qty: 5000 pcs/reel

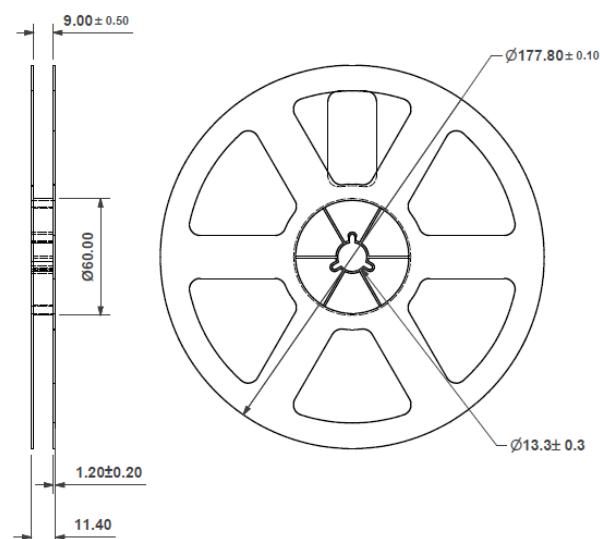
Carrier Tape :



Tape :



Reel :



Important Notice

PLEASE READ THIS NOTICE BEFORE USING OUR PRODUCTS.

1. All specifications are based on the test circuit
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
4. This is the optimum impedance in order to achieve the performance shown