Acoustic Chip Technology
Shengxin

DATASHEET

of SAW Devices

SAW Resonator

Part Number: SXR313M000AD11

Center Frequency: 313.000MHz

Package: DIP-D11

- Package Dimensions
- Testing Environment
- Electrical Characteristics
- Frequency Characteristics

Revision Record

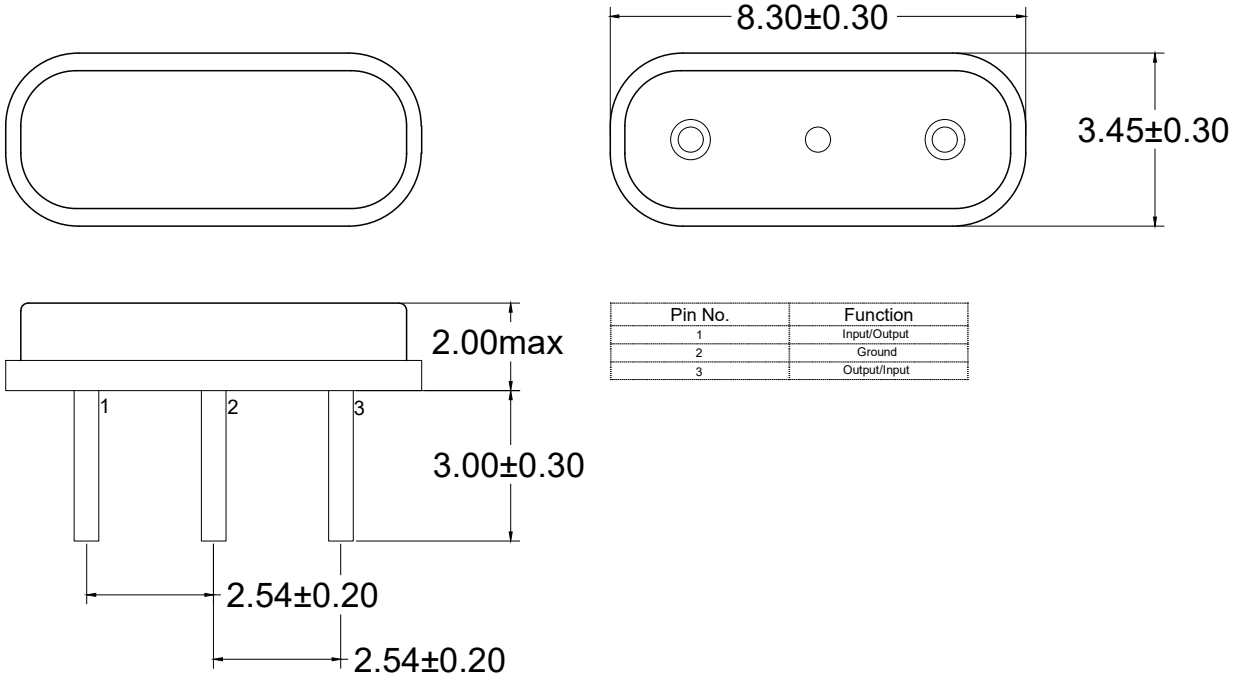
Revision Number	Date	Description
SXR313M000AD11_RevA/0	2023-07-03	Revision A/0

All rights reserved, Copyright © 2019-2023 Suzhou Shengxin Electronics Co., Ltd

1. Features

- 1-port SAW resonator
- Ceramic package for Surface Mounted Technology (SMT)
- Lead-free production and RoHS Compliant
- **E**lectrostatic **S**ensitive **D**evice(ESD)
- **M**oisture **S**ensitivity **L**evel 2

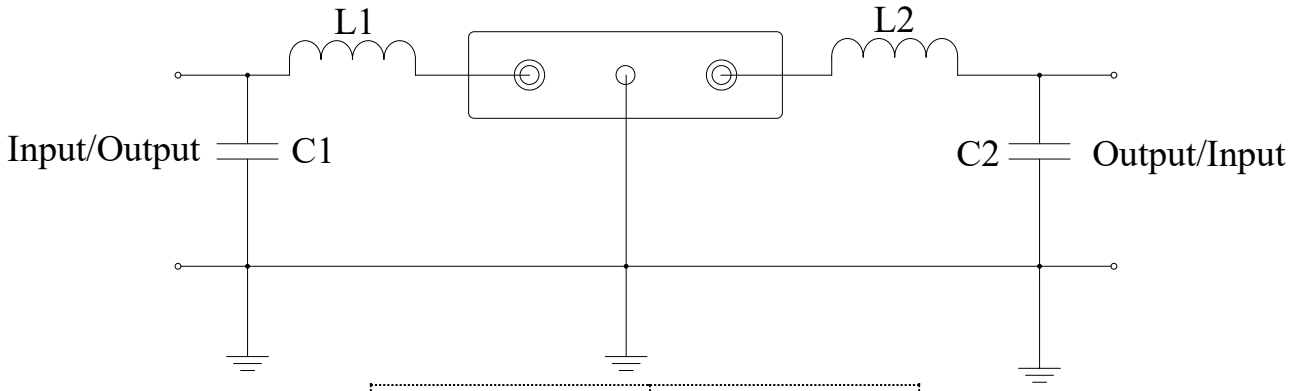
2. Package Dimension(Unit: mm)



Pin No.	Function
1	Input/Output
2	Ground
3	Output/Input

All rights reserved, Copyright © 2019-2023 Suzhou Shengxin Electronics Co., Ltd

3. Measurement Circuit



Parameter Name	Value
L1	NULL
L2	NULL
C1	NULL
C2	NULL

4. Maximum Ratings

Rating		Value	Unit
RF Input Power	P	10	dBm
DC Voltage	V_{DC}	10	V
Operating Temperature Range	T_A	-40 ~ +85	°C
Storage Temperature Range	T_{stg}	-45 ~ +85	°C
ESD Voltage(MM)	V_{MM}	50	V
ESD Voltage(HBM)	V_{HBM}	175	V

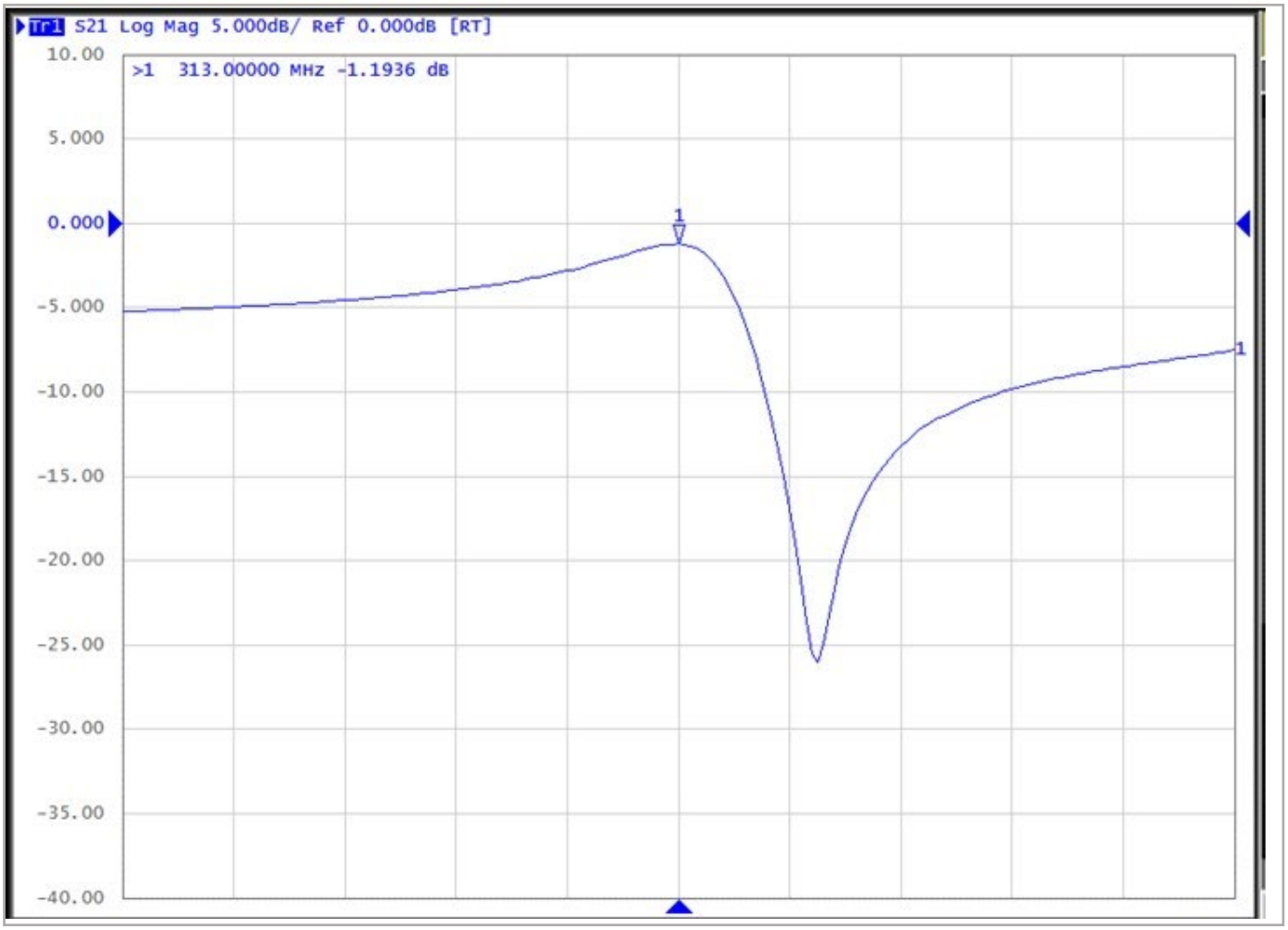
5. Electrical Specification

Item	Frequency Range	Characteristics			
		min.	typ.[1]	max.	Unit
Center Frequency	Absolute Frequency	312.925	313. 00	313.075	MHz
	Tolerance from 313.000MHz	-	±75	-	kHz
Insertion Loss	Min.	-	1.5	2.2	dB
Anti-resonance	-	24	25	-	dB

1. Typical value at 25±2deg.C

All rights reserved, Copyright © 2019-2023 Suzhou Shengxin Electronics Co., Ltd

6. Typical Frequency Characteristic



All rights reserved, Copyright © 2019-2023 Suzhou Shengxin Electronics Co., Ltd