



DATASHEET

of SAW Devices

SAW Resonator

Part Number: SXR304M300AC20

Center Frequency: 304.300MHz

Package: CSP2016

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

SAW Components	SAW Resonator
Part Number	SXR304M300AC20

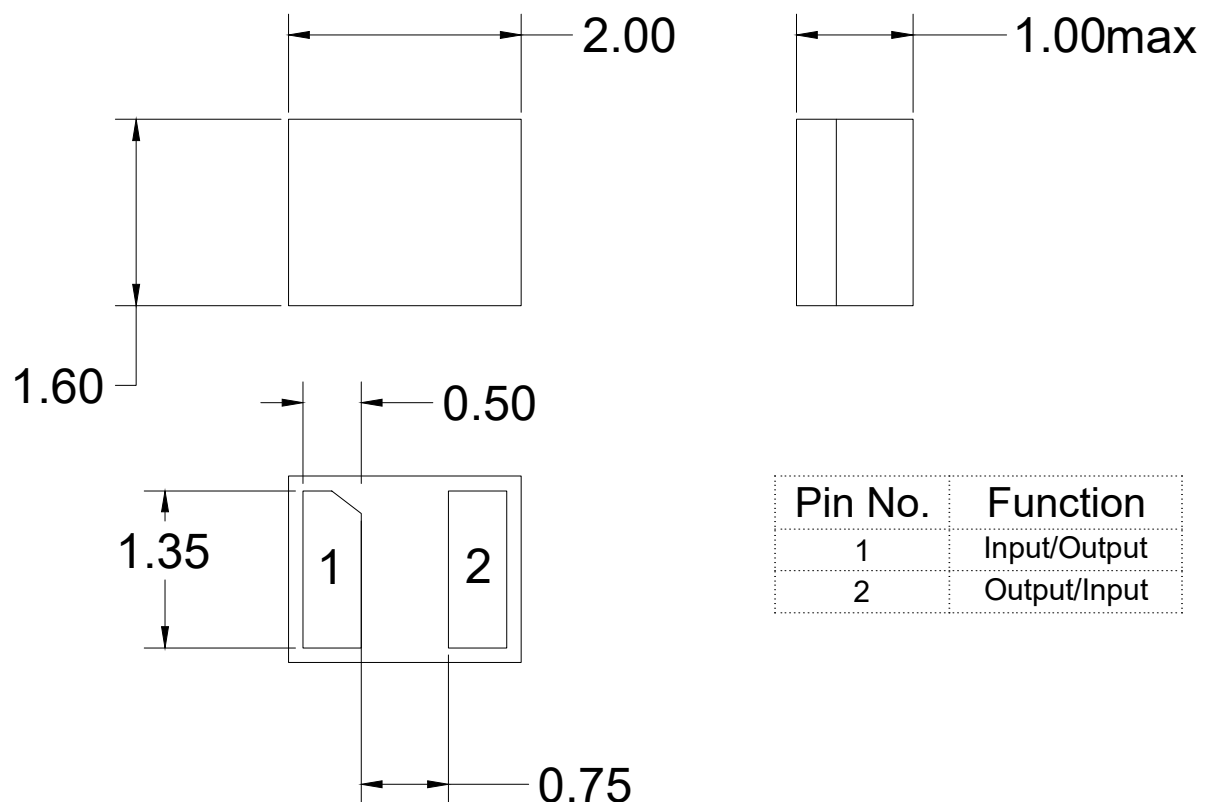
Revision Record

Revision Number	Date	Description
SXR304M300AC20_Rev1.0	2023-02-08	Revision 1.0

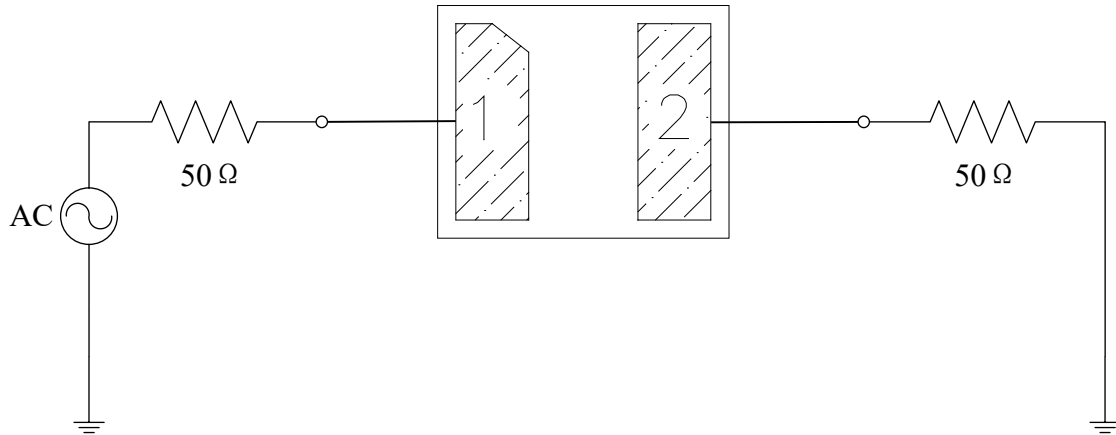
1. Features

- 1-port SAW resonator
- Ceramic package for Surface Mounted Technology (SMT)
- Lead-free production and RoHS Compliant
- Electrostatic Sensitive Device(ESD)
- Moisture Sensitivity Level 2

2. Package Dimension(Unit: mm)



3. Measurement Circuit



4. Maximum Ratings

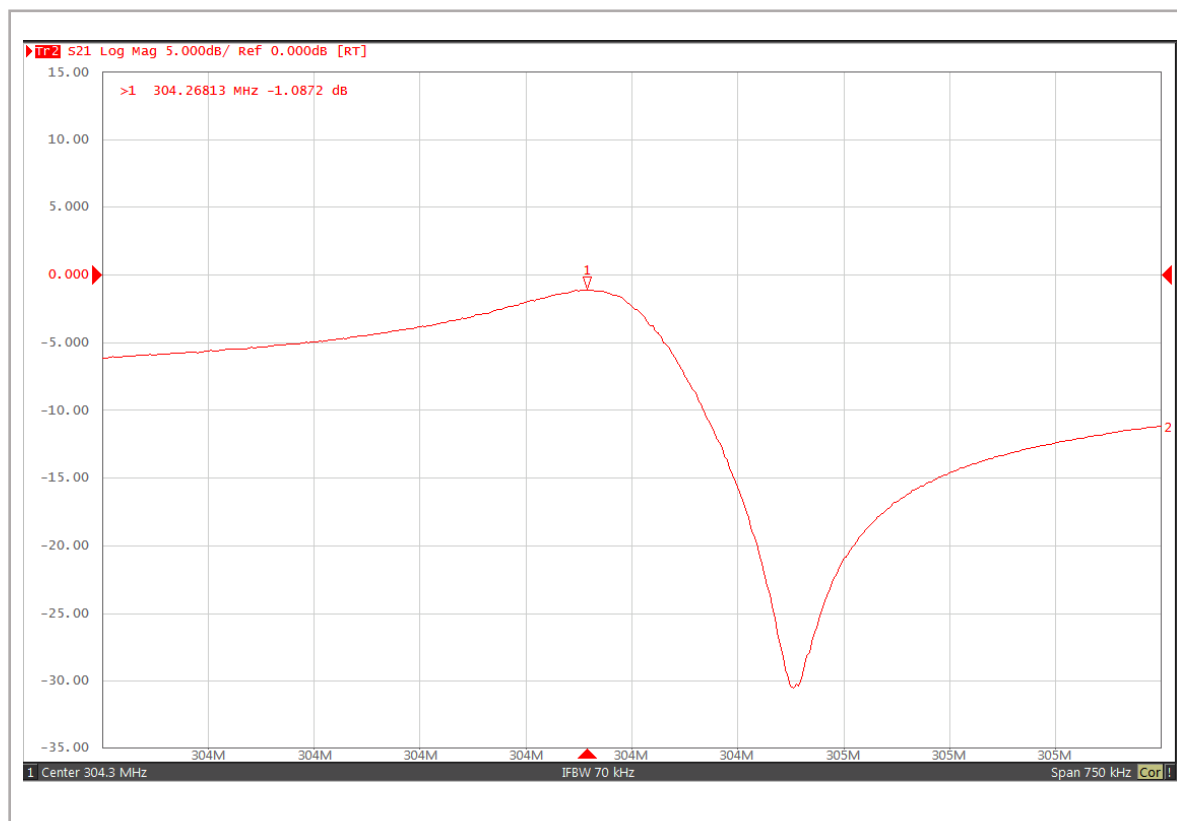
Rating		Value	Unit
RF Input Power	P	10	dBm
DC Voltage	V _{DC}	10	V
Operating Temperature Range	T _A	-40 ~ +85	°C
Storage Temperature Range	T _{stg}	-45 ~ +85	°C
ESD Voltage(MM)	V _{MM}	50	V
ESD Voltage(HBM)	V _{HBM}	175	V

5. Electrical Specification

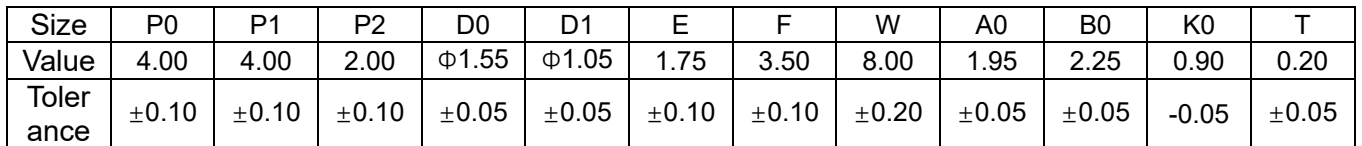
Item	Frequency Range	Characteristics			
		min.	typ. ¹	max.	Unit
Center Frequency	Absolute Frequency	304.15	304.30	304.45	MHz
	Tolerance from 304.300MHz	-	±150	-	kHz
Insertion Loss	Min.	-	1.5	2.2	dB
Anti-resonance	-	24	25	-	dB

1. Typical value at 25±2deg.C

6. Typical Frequency Characteristics



Tape:



Technical drawing of a circular mechanical part, showing three views: front, side, and top.

Front View (Left): Shows a circular part with a central hub and four spokes. The outer radius is labeled $R\ 30$.

Side View (Middle): Shows the thickness of the part. The total thickness is labeled $F\ 9.0 \pm 0.3$. The thickness of the central hub is labeled $T\ 1.20 \pm 0.20$. The diameter of the central hole is labeled $B\ \Phi 60 \pm 0.20$.

Top View (Right): Shows the outer diameter of the part, labeled $A\ \Phi 178 \pm 0.05$.

Temperature: °C

Peak Temperature: 260°C ±5°C
Time Above 230°C : 80 sec. max.

Preheating: 150°C ±3°C
Slope: ~2.5°C/sec

Max. 80s

Temperature gradient in cooling: -5°C/sec.max.
Reflow cycles: 3 cycles max.

60s~120s

Time: Second