



DATASHEET

of SAW Devices

SAW Resonator

Part Number: SXR1030M00BS04

Center Frequency: 1030.00MHz

Package: SMD3838

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

SAW Components	SAW Resonator
Part Number	SXR1030M00BS04

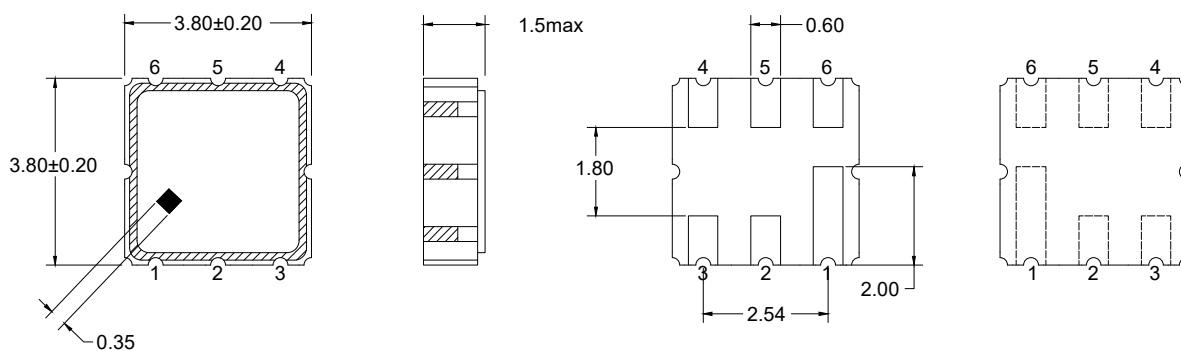
Revision Record

Revision Number	Date	Description
SXR1030M00BS04_RevB/0	2023-06-13	Preliminary Version
SXR1030M00BS04_RevB/1	2023-06-16	Version B/1

1. Features

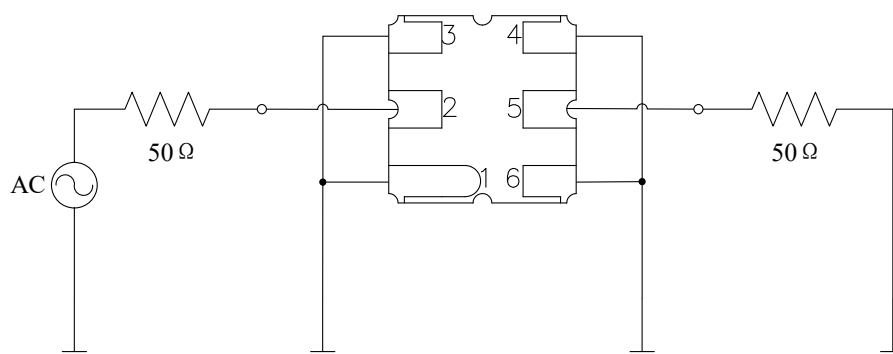
- 2-port SAW resonator
- Ceramic package for Surface Mounted Technology (SMT)
- Lead-free production and RoHS Compliant
- Electrostatic Sensitive Device(ESD)
- Moisture Sensitivity Level 2

2. Package Dimension(Unit: mm)



Pin Configuration	
2	Input
5	Output
1, 3, 4, 6	To Be Ground

3. Measurement Circuit



4. Maximum Ratings

Rating		Value	Unit
RF Input Power	P	10	dBm
DC Voltage	V _{DC}	30	V
Operating Temperature Range	T _A	-40 ~ +85	°C
Storage Temperature Range	T _{stg}	-40 ~ +85	°C
ESD Voltage(MM)	V _{MM}	50	V
ESD Voltage(HBM)	V _{HBM}	175	V

SAW Components

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5. Electrical Specification

Item	Frequency Range	Characteristics			
		min.	typ. ¹	max.	Unit
Center Frequency	Absolute Frequency	1029.85	1030.00	1030.15	MHz
	Tolerance from 1030.00MHz	-	±150	-	kHz
Insertion Loss	Min.	-	8.5	10.0	dB
Quality Factor	Unloaded Q	-	8280	-	-
	50Ω Loaded Q	-	5180	-	-
Temperature Stability	Turnover Temperature	25	-	45	°C
	Turnover Frequency	-	fc	-	kHz
	Frequency Temperature Coefficient	-	0.032	-	ppm/°C ²
Frequency Aging Absolute Value during the First Year		-	≤10	-	ppm/yr
DC Insulation Resistance Between Any Two Terminals		1.0	-	-	MΩ
RF Equivalent RLC Model	Motional Resistance	-	166	200	Ω
	Motional inductance	-	212.664	-	μH
	Motional Capacitance	-	0.112	-	fF
	Shunt Static Capacitance	1.3	1.6	1.9	pF

1. Typical value at 25±2deg.C

6. Typical Frequency Characteristic（无曲线图）

SAW Components

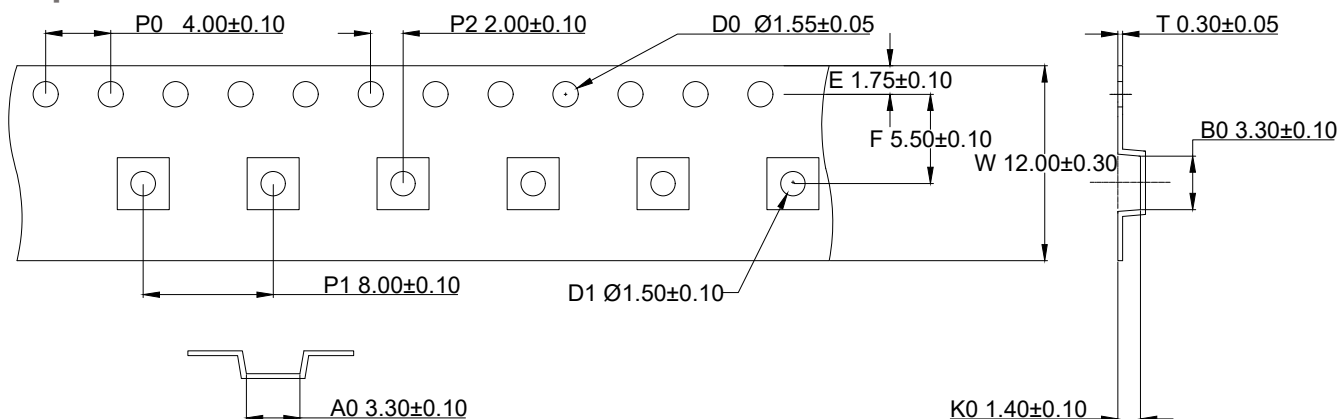
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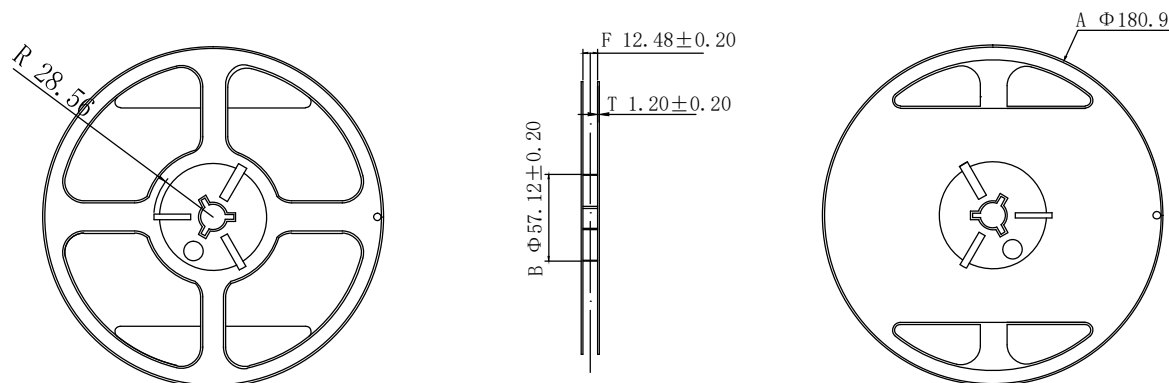
7. Packing Information

Tape:



Size	P0	P1	P2	D0	D1	E	F	W	A0	B0	K0	T
Value	4.00	8.00	2.00	Ø1.55	Ø1.50	1.75	5.50	12.00	3.30	3.30	1.40	0.30
Tolerance	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.30	±0.10	±0.10	±0.10	±0.05

Reel: 1000pcs/Reel(Standard Size)



8. Recommended Soldering Profile

