



DATASHEET

of SAW Devices

SAW Filter

Automotive telematics

Part Number: SXCF1189RBNSC11

- Package Dimensions
- Testing Environment
- Electrical Characteristics
- Frequency Characteristics
- Remark and Packing
- Description

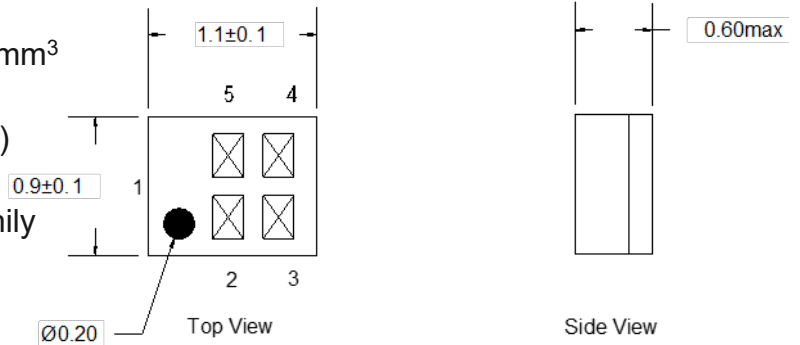
编制: 疏馨 审批: 刘澄飞 生效日期: 2025.08.20

Revision Record

Revision Number	Date	Description
SXCF1189RBNSC11_V1.0	2025-06-16	Version 1.0
SXCF1189RBNSC11_V1.1	2025-06-19	Version 1.1(DC Voltage)
SXCF1189RBNSC11_V1.2	2025-07-01	Version 1.2(Frequency Characteristics)
SXCF1189RBNSC11_V1.3	2025-07-22	Version 1.3(Marking)
SXCF1189RBNSC11_V1.4	2025-07-25	Version 1.4(Features&Marking&Description)
SXCF1189RBNSC11_V1.5	2025-08-19	Version 1.5(SPEC& Frequency Characteristics)

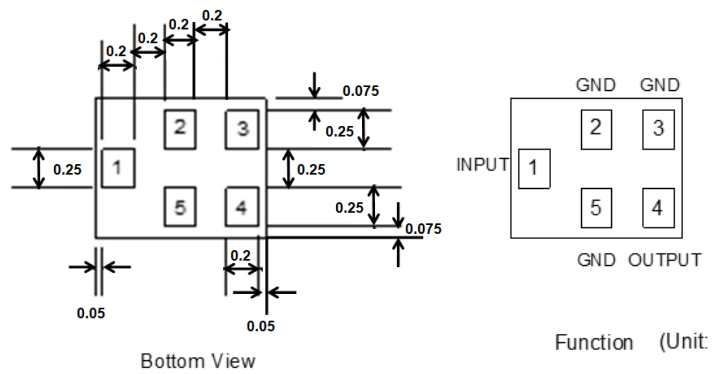
Features

- Package size 1.1 x 0.9 x 0.6(max.) mm³
 - RoHS compatible
 - Electrostatic Sensitive Device (ESD)
 - Moisture Sensitivity Level 2
 - AEC-Q200 qualified component family
- (Grade 2: -40°C to +105°C)



Pin Configuration

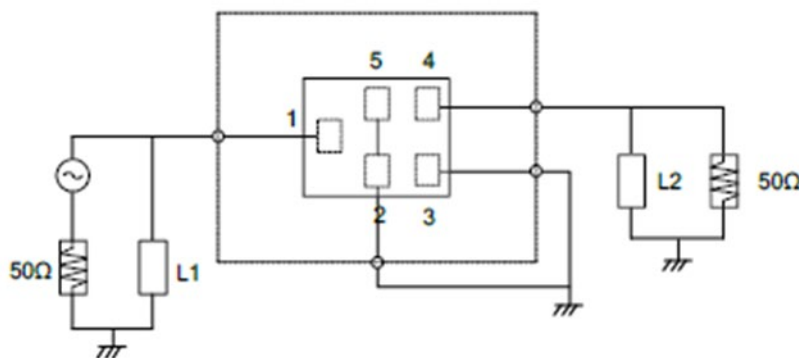
- 1 Unbalanced port
- 4 Unbalanced port
- Others: GND



Marking

- XX(The first row): **JP**
- XX(The second row): Date Code
 (Please refer to the last page for the information of Date Code.)

Measurement Circuit (Top Thru View)



Parameter Name	Value
L1	10nH
L2	12nH

Maximum Ratings

Characteristics		Ratings	Unit
Operable Temperature Range	T	-40 to +105	°C
Storage Temperature Range	T _{stg}	-40 to +105	°C
DC Voltage	V _{DC}	5	V
Input Power Level	P	15	dBm
ESD Voltage(MM)	V _{MM}	50	V
ESD Voltage(HBM)	V _{HBM}	175	V

Characteristics

Temperature range for specification: -40°C ~ +105°C

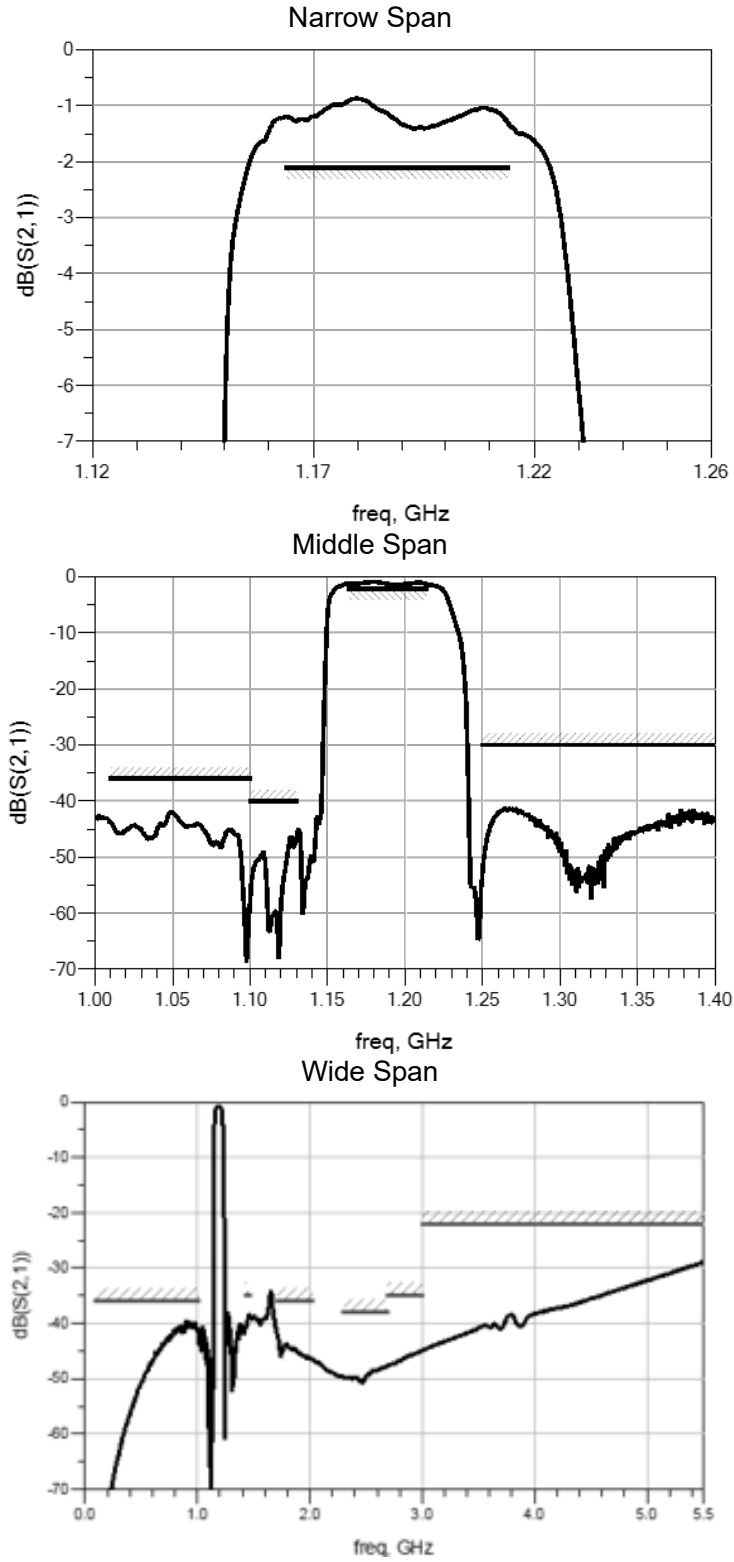
Terminal source impedance: 50Ω // 10nH

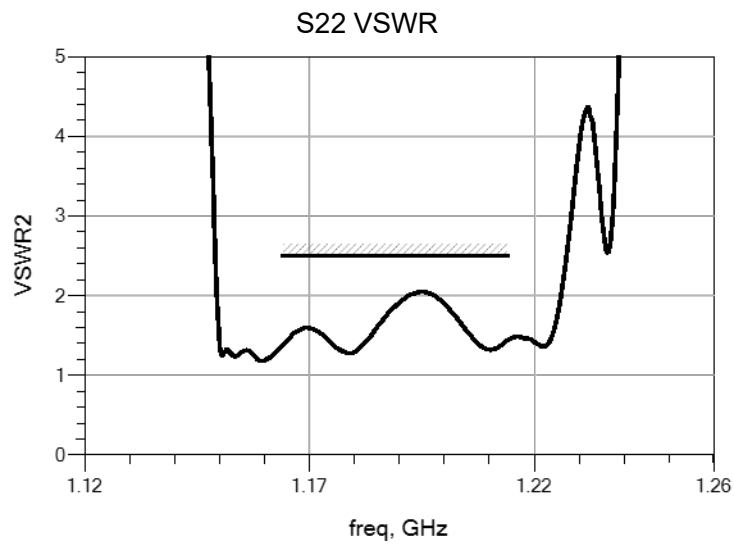
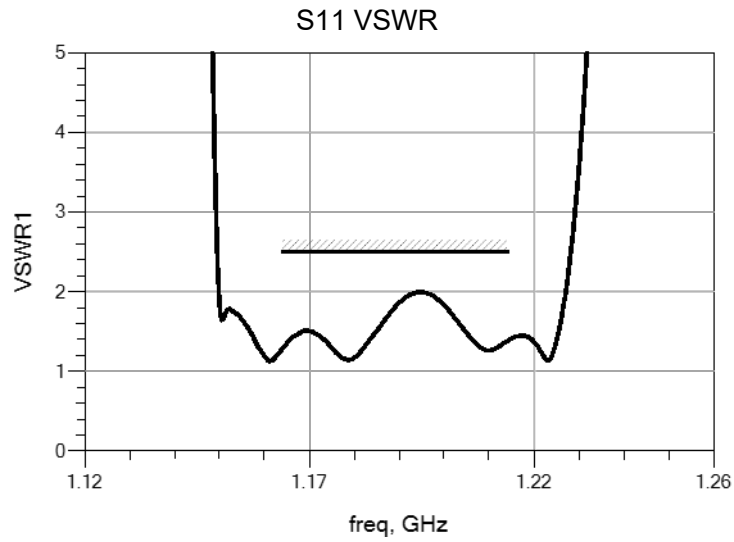
Terminal load impedance: 50Ω // 12nH

Item	Frequency Range [MHz]	Characteristics			
		min.	typ.	max.	Unit
Insertion Loss	1164 – 1214	-	1.4	2.1	dB
Ripple Deviation	1164 – 1214	-	0.5	1.4	dB
VSWR	1164 – 1214	-	2.0	2.5	
Absolute Attenuation	100 – 814	36	42	-	dB
	814 – 849	36	42	-	dB
	849 – 980	36	41	-	dB
	980 – 1010	36	42	-	dB
	1010 – 1100	36	41	-	dB
	1100 – 1130	40	46	-	dB
	1250 – 1427	35	41	-	dB
	1427 – 1463	35	40	-	dB
	1710 – 2025	36	42	-	dB
	2300 – 2690	38	44	-	dB
	2690 – 3000	35	40	-	dB
3000 – 6000	22	28	-	dB	

1. Evaluation Board Feed line loss is de-embedded.

Frequency Characteristics



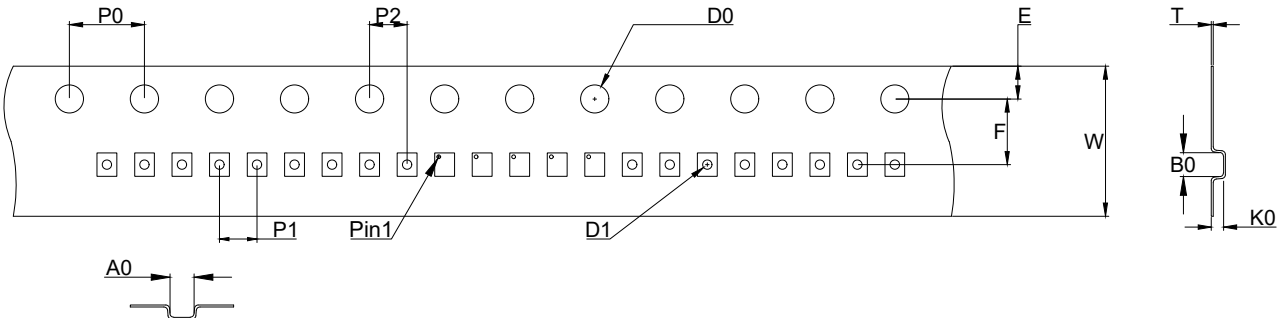


Remarks

1. Please be certain not to apply voltage above the rated voltage of SAW components.
2. Please be sure that the components are operated within the specified operating temperature range.
3. Abrupt temperature change shall be avoided because deterioration of the component characteristics can occur under that situation.
4. Please be careful of soldering temperature when soldering.
5. Please do not place soldering iron on the body of components.
6. Please be careful not to subject the terminals or leads of components to excessive force.

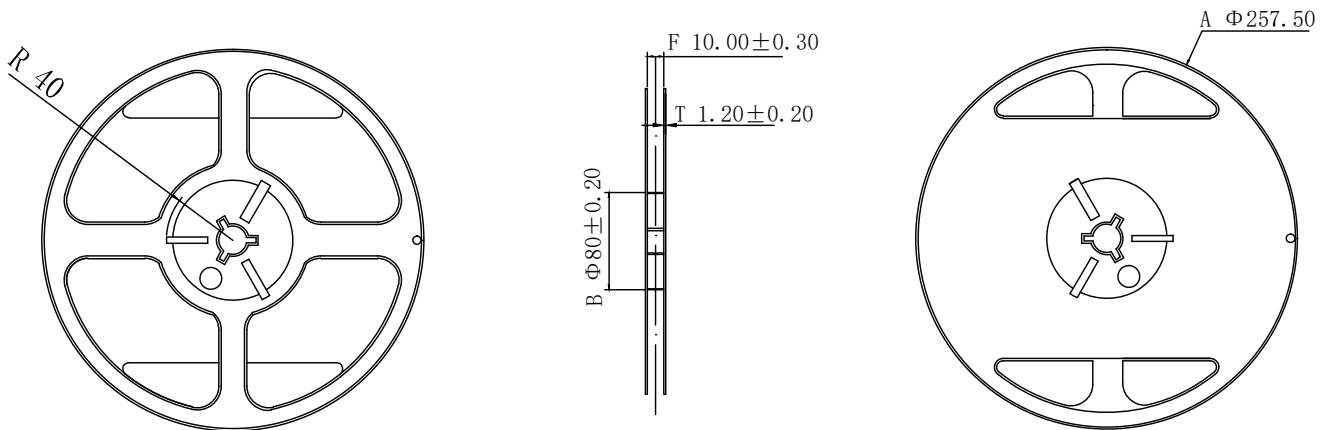
Packing Information

Tape(Unit: mm)



Size	P0	P1	P2	D0	D1	E	F	W	A0	B0	K0	T
Value	4.00	2.00	2.00	Φ1.50	Φ0.50	1.75	3.50	8.00	0.95	1.15	0.68	0.20
Tolerance	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.05	±0.30	±0.05	±0.05	±0.04	±0.03

Reel: 10000pcs/Reel(Standard Size)



Description of Date Code

A. Month Code:

2022	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2026	A	B	C	D	E	F	G	H	J	K	L	M
2030												
2023	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2027	N	P	Q	R	S	T	U	V	W	X	Y	Z
2031												
2024	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2028	a	b	€	d	e	f	g	h	j	k	l	ᄁ
2032												
2025	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2029	n	o	p	q	r	s	t	u	v	w	x	y
2033												

B. Date Code:

1	2	3	4	5	6	7	8	9	10	
A	B	C	D	E	F	G	H	J	K	
11	12	13	14	15	16	17	18	19	20	
L	M	N	P	Q	R	S	T	U	V	
21	22	23	24	25	26	27	28	29	30	31
W	X	Y	Z	a	b	€	d	e	f	g

Recommended Soldering Profile

