

SPECIFICATION SHEET

SMD SAW FILTER 6 PADS 3030 TYPE SXF SERIES

SPECIFICATION SHEET NO.	S0407 - SXF0916RANSS30							
ORIGINAL MFG/PART NO.	Shengxin SAW/SXF0916RANSS02/SXF0919							
NEXTGEN PART CODE	SXF0916RANSS30 Indicate This Code For <u>RFQ</u> Order							
DATE	Apr. 7, 2025							
REVISION	A3 Updated With Most Recent Data							
DESCRIPTION AND	SMD SAW Filter, 6 Pads, 3030 Type, SXF Series							
MAIN PARBMETRICS	Case code DCC6C, Case Dimension L3.0*W3.0*H1.50mm Center Frequency 916MHz; Insertion Loss: 2.5dB Typical, 3.0dB Max. Amplitude Ripple: 1.2dB Max. Operating Temp. Range -45°C ~ +85°C Reflow Profile Condition 260°C Max. Package in Tape/Reel, 1000pcs/Reel REACH/RoHS/RoHS III Compliant							
CUSTOMER								
CUSTOMER PART NUMBER								
CROSS REF. PART NUMBER								
ΜΕΜΟ								

VENDOR APPROVE Issued/Checked/Approved mp Ruby Zhang Mandy lack han Effective Date: Apr. 7, 2025

CUSTOMER APPROVE Date: 4/7/2025



PART CODE: **SXF0916RANSS30** SMD SAW FILTER 6 PADS 3030 TYPE SXF SERIES

MAIN FEATURE

- SMD SAW Filter 3030 Type 6 Pads
- Dimension L3.0*W3.0*H1.5mm, Case code DCC6C
- Low-loss SAW filter
- Low Amplitude Ripple
- No Matching Network Required For Operation At 50Ω
- Ceramic Package For Surface Mounted Technology (SMT)
- Electrostatic Sensitive Device (ESD)
- Moisture Sensitivity Level (MSL) 1
- Short Lead time
- Cross Competitors Parts and More
- REACH/RoHs/RoHs III Compliant

APPLICATION

- Bluetooth, Wireless Communication Set
- Communication Electronics
- GPS, Remote Control Application

ELECTRICAL CHARBCTERISTICS

- See Page 5
- All Products Parameters are Subject To NextGen Components' Final Confirmation.

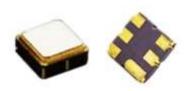


Image shown is a representation only. Exact specifications should be obtained from the product dimension.





HOW TO ORDER

• Please Follow Up Part Code Guide And Indicate NextGen Part Code <u>SXF0916RANSS30</u> For RFQ and Order.

PART CODE GUIDE

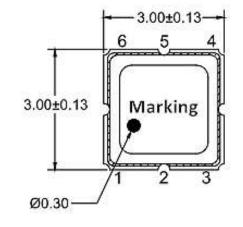


CODE	NAME	KEY SPECIFICATION OPTION
SXF	Series Code	SMD SAW Filter
0916R	Frequency Range Code	0916R: 916.0MHz or Custom Frequency Range
ANS	Internal Control Code	Letter A~Z, a~z or Digits (1-9)
S30	Dimension Code	S30: Case Dimension L3.0*W3.0*H1.5mm, 6 Pads, 3030 Type
ХХ	Special/Custom Parameters Code	Blank: N/A XX: Letter A~Z, a~z or Digits (0~9) for Special/Custom Parameters

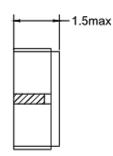


DIMENSION - Unit: mm, L3.0*W3.0*H1.5mm

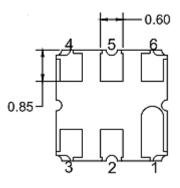
Top View



Side View



Bottom View



PIN CONFIGURATION						
2	Input					
5	Output					
1,3,4,6	To Be Ground					

4/7/2025

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MAX. RATING & CHARACTERISTICS - At 25±2°C Ambient Temperature Unless Otherwise Specified.

PARAMETER	SYMBOLS	VALUE	UNITS
RF Power Level	Р	15	dBm
Operating Temperature Range	Та	-45 to +85	°C
Storage Temperature Range	Tstg	-45 to +85	°C
ESD Voltage (MM)	VMM	50	V
ESD Voltage (HBM)	Vнвм	175	V

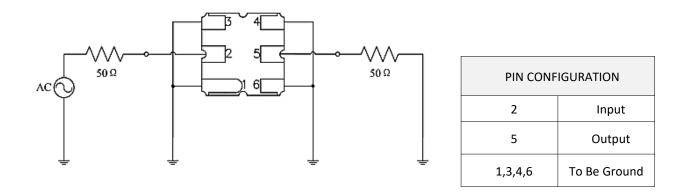
ELECTRONICAL CHARACTERISTICS - At 25±2°C Ambient Temperature Unless Otherwise Specified.

PARAMETER	FREQUENCY	CHARACTERISTICS					
	RANGE (MHz)	MIN.	TYPICAL	MAX.	UNIT		
Center Frequency	-	-	916	-	MHz		
Insertion Loss	914.25 – 917.75	-	2.5	3.0	dB		
Amplitude Ripple	914.25 – 917.75	-	0.5	1.2	dB		
Absolute Attenuation	10 - 897	36	42	-	dB		
	897 - 903	30	42	-	dB		
	930 - 937	30	48	-	dB		
	937 - 1200	30	40	-	dB		

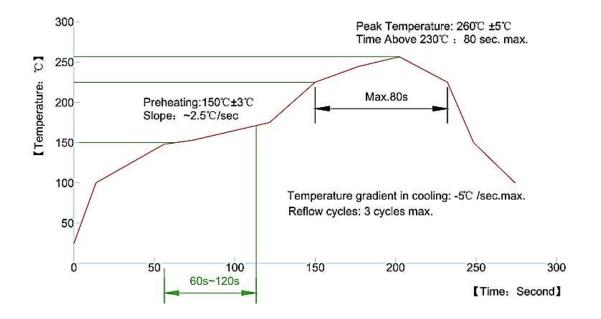
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MEASUREMENT CIRCUIT – FOR REFERENCE ONLY



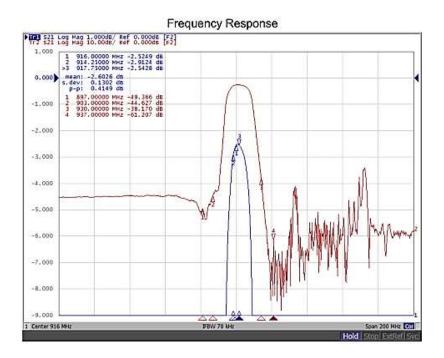
RECOMMENDED SOLDERING PROFILE – FOE REFERENCE ONLY

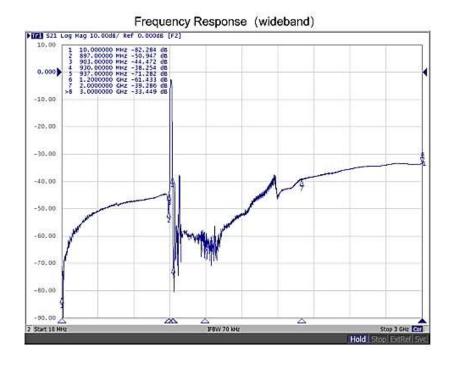




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FREQUENCY CHARACTERISTICS - FOR REFERENCE ONLY



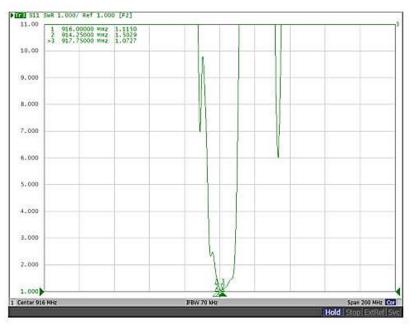


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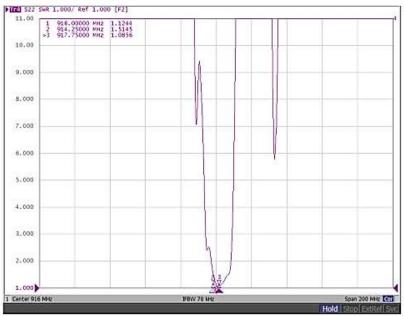


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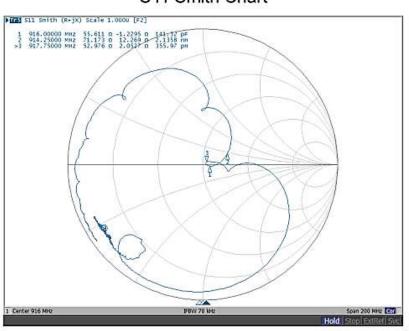
S11 VSWR



S22 VSWR

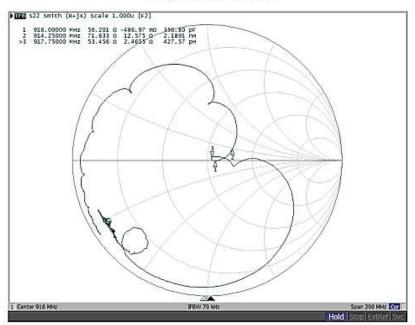


FREQUENCY CHARACTERISTICS - FOR REFERENCE ONLY



S11 Smith Chart

S22 Smith Chart



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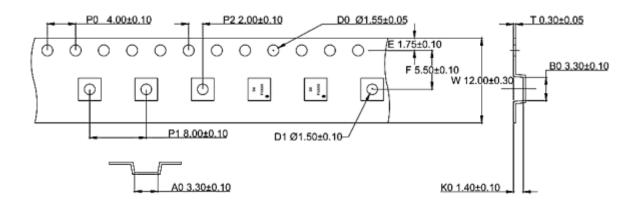
RELIABILITY CHARACTERISTICS

TEST ITEMS	TEST METHOD AND CONDITIONS
High Temperature Storage	 Test temperature: +85°C±3°C Duration time: 500 hours Restore time: 2 hours at the room temperature (25°C)
Low Temperature Storage	 Test temperature: -40°C±3°C Duration time: 500 hours Restore time: 2 hours at the room temperature (25°C)
High Temperature High Humidity Storage	 Test temperature: +85°C±3°C Test Humidity: 85%±3% Duration Hours: 240 hours Restore time: 2 hours at the room temperature (25°C)
Temperature Cycling	 Test Temperature: -40° _10°C~+85⁺¹⁰0°C Time for each step: ≥30min Conversion time: ≤1min Cycle times: 100 times Restore time: 24 hours at the room temperature (25°C)
Soldering Heat Resistance	 Reflow with 260±5°C, 10±1s (Solder Pot) Restore time: 2 hours at the room temperature (25°C)
Solderability Test	Soldering method and temperature: lead-free reflow soldering, 245±5 °C for 5±0.5s
Remarks	 Please be certain not to apply voltage above the rated voltage of SAW components. Please be sure that the component operate within the specified operating temperature range. Abrupt temperature change shall be avoided because deterioration of the component characteristics can occur under that situation. Please be careful of soldering temperature when soldering. Please do not place soldering iron on the body of components. Please be careful not to subject the terminals or leads of components to excessive force.

4/7/2025

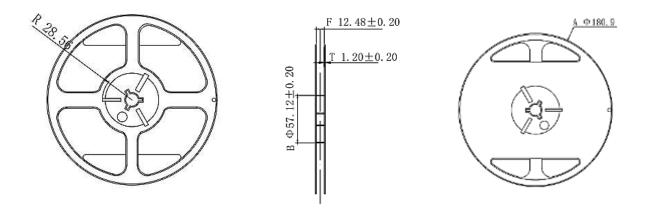


TAPE DIMENSION - Unit: mm, All Devices are packed in accordance with EIA standard RS-481-2.



Size	PO	P1	P2	D0	D1	E	F	W	A0	BO	ко	Т
Value	4.00	8.00	2.00	Φ1.55	Φ1.5	1.75	5.50	12.0	3.30	3.30	1.40	0.30
Tol.	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.1	±0.3	±0.1	±0.1	±0.1	±0.05

REEL DIMENSION - Unit: mm, 1000pcs/Reel.





IMPORTANT NOTES AND DISCLAIMER

- ROHS COMPLIANCE: The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU RoHS Directive (EU) 2015/863 EC (RoHS3). RoHS Test Report for this product can be obtained can be obtained at Download Center.
- REACH COMPLIANCE: REACH substances of high concern (SVHCs) information is available for this product.
 Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, REACH Test Report for this product can be obtained can be obtained at Download Center.
- All Product parametric performance is indicated in the Electrical Characteristics for the listed herein test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
- 4. NextGen Component, Inc (*NextGen*) reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
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- 7. NextGen products are not authorized for use as critical components in life support devices or systems without express written approval by NextGen.
- 8. NextGen requires that customers first obtain an RMA (Returned Merchandise Authorization) number prior to returning any products. Returns must be made within 30 days of the date of invoice, be in the original packaging, unused and like-new condition. At the time of quoting or purchasing, a product may say that it is

Non-Cancelable/ Non-Returnable (NCNR). These products are not returnable and not refundable.

4/7/2025