

SPECIFICATION SHEET

SMD SAW FILTER 6 PADS 3030 TYPE SXF SERIES

SPECIFICATION SHEET NO.	S0407 - SXF0433RJNSS30						
ORIGINAL MFG/PART NO.	Shengxin SAW/SXF0433RJNSS02/SXF0490						
NEXTGEN PART CODE	SXF0433RJNSS30 Indicate This Code For RFQ 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 433.92MHz; Insertion Loss: 1.8dB Typical, 3.0dB Max. Amplitude Ripple: 1.4dB Max. Operating Temp. Range -40°C ~ +125°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							
МЕМО							

VENDOR APPROVE

Issued/Checked/Approved







Effective Date: Apr. 7, 2025

CUSTOMER APPROVE

Date:



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





Image shown is a representation only. Exact specifications should be obtained from the product $% \frac{\partial f}{\partial x} = \frac{\partial f}{\partial x} - \frac{\partial f}{\partial x} - \frac{\partial f}{\partial x} = \frac{\partial f}{\partial x} - \frac{\partial f}{\partial x} - \frac{\partial f}{\partial x} = \frac{\partial f}{\partial x} - \frac{\partial f}{\partial x} - \frac{\partial f}{\partial x} - \frac{\partial f}{\partial x} = \frac{\partial f}{\partial x} - \frac{\partial f}{\partial x}$ dimension.





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.



PART CODE: **SXF0433RJNSS30**SMD SAW FILTER 6 PADS 3030 TYPE SXF SERIES

HOW TO ORDER

• Please Follow Up Part Code Guide And Indicate NextGen Part Code <u>SXF0433RJNSS30</u> For RFQ and Order.

PART CODE GUIDE

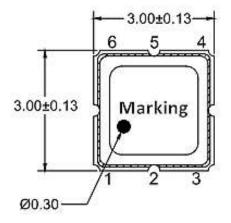


CODE	NAME	KEY SPECIFICATION OPTION
SXF	Series Code	SMD SAW Filter
0433R	Frequency Range Code	0433R: 433.92MHz or Custom Frequency Range
JNS	Internal Control Code	Letter A~Z, a~z or Digits (1-9)
S30	Dimension Code	S30: Case Dimension L3.0*W3.0*H1.5mm, 6 Pads, 3030 Type
хх	Special/Custom Parameters Code	Blank: N/A XX: Letter A~Z, a~z or Digits (0~9) for Special/Custom Parameters

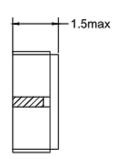
SMD SAW FILTER 6 PADS 3030 TYPE SXF SERIES

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

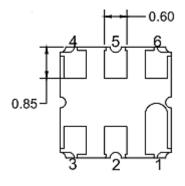
Top View



Side View



Bottom View



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



SMD SAW FILTER 6 PADS 3030 TYPE SXF SERIES

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

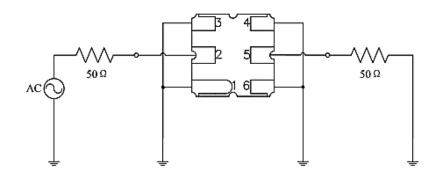
PARAMETER	SYMBOLS	VALUE	UNITS
RF Power Level	Р	20	dBm
DC Voltage	VDC	6	V
Operating Temperature Range	TA	-40 to +125	°C
Storage Temperature Range	Tstg	-40 to +85	°C
ESD Voltage (MM)	Vмм	50	V
ESD Voltage (HBM)	Vнвм	175	V

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

PARAMETER	FREQUENCY	CHARACTERISTICS					
	RANGE (MHz)	MIN.	TYPICAL	MAX.	UNIT		
Center Frequency	-	-	433.92	-	MHz		
Insertion Loss	433.05 – 434.79	-	1.8	3.0	dB		
Amplitude Ripple	433.05 – 434.79	-	0.2	1.4	dB		
VSWR	433.05 – 434.79	-	1.3 2.2		-		
Absolute Attenuation	10 – 380	58	65	-	dB		
	380 – 423.42	46	53	-	dB		
	443.42 – 453.42	25	32	-	dB		
	453.42 – 460	35 45		-	dB		
	460 – 700	38	42	-	dB		
	700 - 1000	42	61	-	dB		
Input/Output Impedance	-	-	50	-	Ohms		

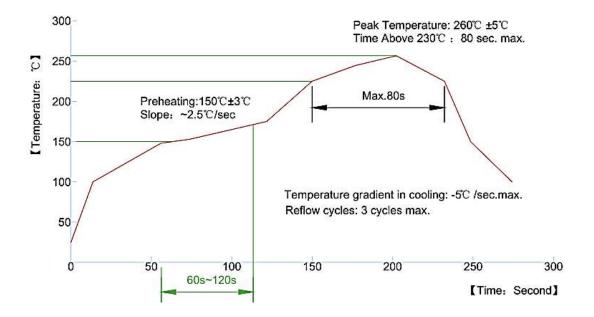


MEASUREMENT CIRCUIT – FOR REFERENCE ONLY



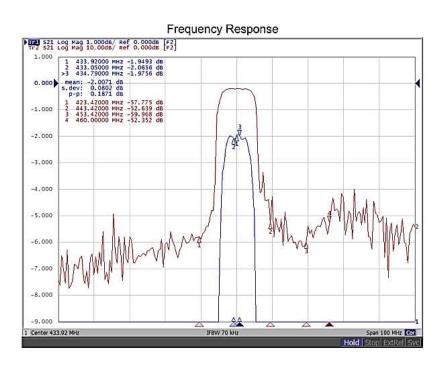
PIN CONFIGURATION						
2	Input					
5	Output					
1,3,4,6	To Be Ground					

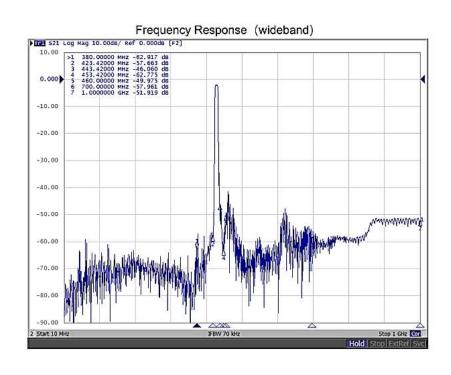
RECOMMENDED SOLDERING PROFILE – FOE REFERENCE ONLY



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FREQUENCY CHARACTERISTICS - FOR REFERENCE ONLY





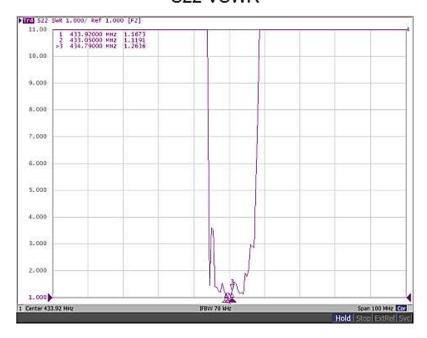


FREQUENCY CHARACTERISTICS - FOR REFERENCE ONLY

S11 VSWR



S22 VSWR

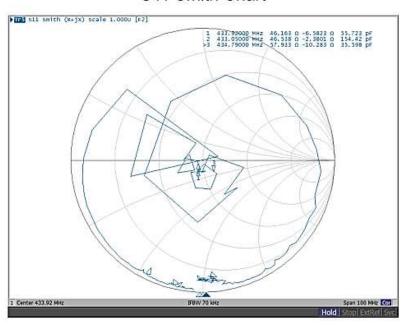




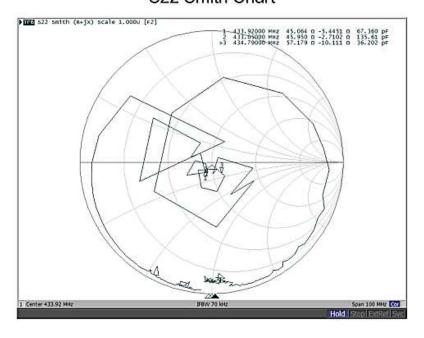
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FREQUENCY CHARACTERISTICS - FOR REFERENCE ONLY

S11 Smith Chart



S22 Smith Chart





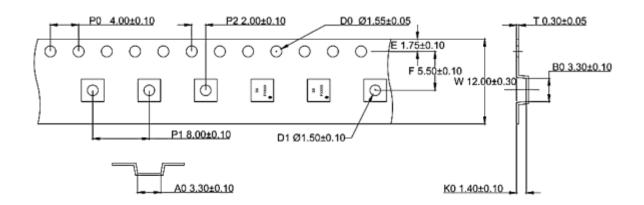
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RELIABILITY CHARACTERISTICS

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.

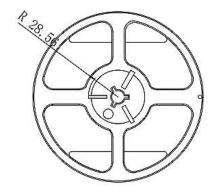
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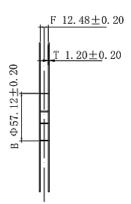
TAPE DIMENSION - Unit: mm, All Devices are packed in accordance with EIA standard RS-481-2.

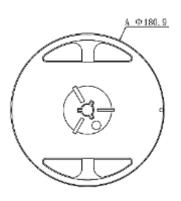


Size	PO	P1	P2	D0	D1	E	F	W	A0	во	КО	Т
Value	4.00	8.00	2.00	Ф1.55	Ф1.5	1.75	5.50	12.0	3.30	3.30	1.40	0.30
Tol.	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.1	±0.3	±0.1	±0.1	±0.1	±0.05

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







NextGen Components, Inc.

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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 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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- 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.