

SPEC NO.: SSR-109M

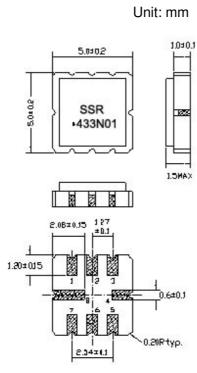
SPECIFICATION

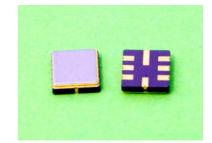
TO:STE769 Model Name: SAW RESONATOR **PART NO: SSR433.92N01S5050** CUSTOMER PART NO.:

STRONG ELECTRONICS&TECHNOLOGY LIMITED

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1. Package Dimension (S5050)





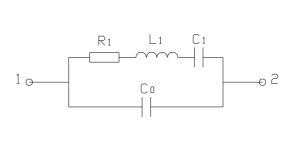
Pin No.	Function
Pin 2	Input
Pin 6	Output
Other	Ground

2. Marking

SSR 433.92N01	(2) SSR: STRONG LOGO													
•	 (5) 01: Tolerance code (+/-75KHz) (6) H6: Date code 													
		F	ł							6				
	Month code						Las	st figu	ire of	' year				
Month			1	2	3	4	5	6	7	8	9	10	11	12
Month code			А	В	С	D	Е	F	G	Н	Ι	J	K	L

e.g.:	"H6 " means August of 2006
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3.Equivalent LC Model



4. Performance

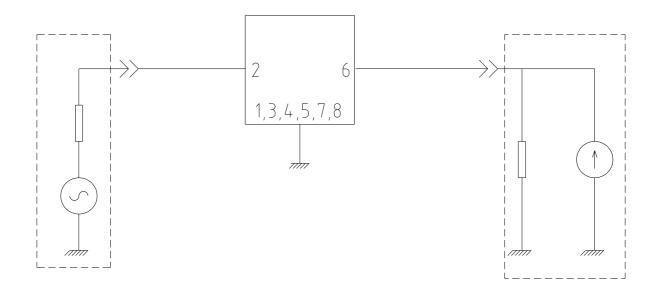
4.1 Maximum Rating

Item	Value
Operation Temperature Range	-40 to +80
Storage Temperature Range	-45 to +85
DC Voltage	10V
Source Power	0 dBm

4.2 Electronic Characteristics

Item	Units	Minimum	Typical	Maximum
Center Frequency (fo)	MHz	433.845	433.92	433.995
Insertion Loss	dB	_	1.5	2.0
Quality Factor				
Unloaded Q	—	—	11,000	—
50Ω Loaded Q		_	2,000	—
Temperature Stability				
Turnover Temperature		—	25	—
Freq. Temp. Coefficient	ppm/	—	0.032	
Frequency Aging	ppm/yr		<±10	
DC Insulation Resistance	MΩ	1.0		
RF Equivalent RLC Model				
Motional Resistance R1	Ω	—	18	26
Motional Inductance L1	μH	—	86	—
Motional Capacitance C1	fF	—	1.56	—
Shunt Static Capacitance C0	pF	1.7	2.0	2.3

4.3 Test Circuit



5. Reliability

5.1 Resistance to Soldering heat:

5.1.1 The components shall remain within the electrical specifications after it soldered on the 1mm-thickness PCB board and dipped in the solder at 260 ± 5 for 10 ± 1 seconds.

5.1.2 The components shall remain within the electrical specifications after it soldered by electric iron, solder at 350 \pm 10 for 3~4 seconds, recovery time : 2h±0.5h.

5.2 Thermal Shock:

The components shall remain within the electrical specifications after being kept at the condition of heat cycle conditions: TA=-40 ± 3 , TB=85 ± 2 , t1=t2=30min, switch time≤3min & cycle time : 100 times, recovery time : 2h±0.5h.

5.3 The Temperature Storage:

5.3.1 High Temperature Storage: The components shall remain within the electrical specifications after being kept at the 85 \pm 2 for 500 hours, recovery time : 2h±0.5h.

5.3.2 Low Temperature Storage: The components shall remain within the electrical specifications after being kept at the -40 ± 3 for 500 hours, recovery time : $2h\pm 0.5h$.

5.4 Humidity test:

The components shall remain within the electrical specifications after being kept at the condition of ambient temperature 60 ± 2 , and 90~95% RH for 500 hours.

5.5 Drop test:

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The components shall remain within the electrical specifications after random free drops 10 times from height of 1.0 meter onto concrete floor, and the specimens shall meet the electrical specifications in table 5, external visual inspection.

5.6 Solderability test:

at the condition of temperature 245 $^\circ\!C$ ±5 $^\circ\!C$ Depth: DIP 2/3 , SMD 1/5, time: 3.0s-5.0s, 80% or more of the immersed surface shall be covered with solder and well-proportioned.

5.7 Vibration Fatigue:

The components shall remain within the electrical specifications after loaded vibration at 10~55Hz, amplitude 1.5mm, X, Y, Z, direction, for 2 hours.

5.8Terminal strength:

The force 10±1 seconds of 19.6N is applied to each terminal, and 45° in the same direction 2 times with 2N bending force (Exception: SMD)

5.9 Mechanical Shock:

The components shall remain within the electrical specifications after 1000 shocks, acceleration 392 m/s^2 , duration 6ms.

6. Remarks

6.1 Static voltage

Static voltage between signal load & ground may cause deterioration & destruction of the component. Please avoid static voltage.

6.2 Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning.

6.3 Soldering

Only leads of component may be soldered. Please avoid soldering another part of component.

7.Packing

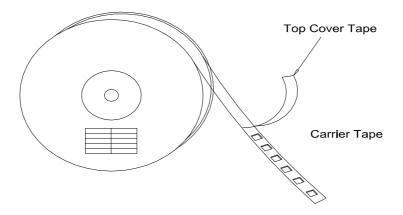
7.1 Dimensions Carrier Tape: Figure 1 Reel: Figure 2

The product shall be packed properly not to be damaged during transportation and storage.

7.2 Reeling Quantity 1,000 pcs/reel

7.3 Taping Structure

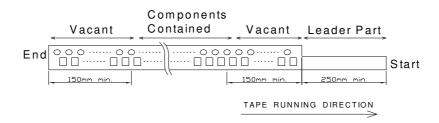
(1) The tape shall be wound around the reel in the direction shown below.



(2) Labe 1

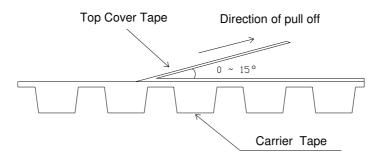
Device Name	
Туре	
Quantity	
Lot No.	

(3) Leader part and vacant position specifications.

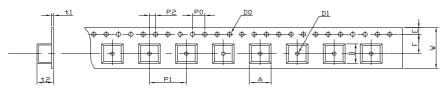


8. Tape Specifications

- 8.1 Tensile Strength of Carrier Tape: 4.4N/mm width
- 8.2 Top Cover Tape Adhesion (See the below figure)
 - (1) pull off angle: 0~15°
 - (2) speed: 300mm/min.
 - (3) force: 20~70g



[Figure 1] Carrier Tape Dimensions

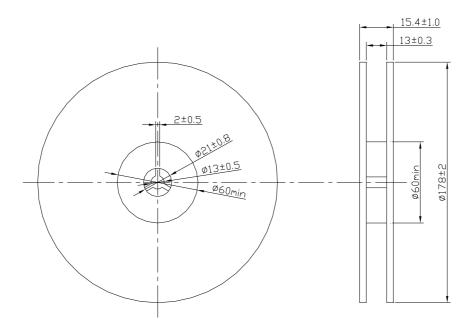


TAPE RUNNING DIRECTION

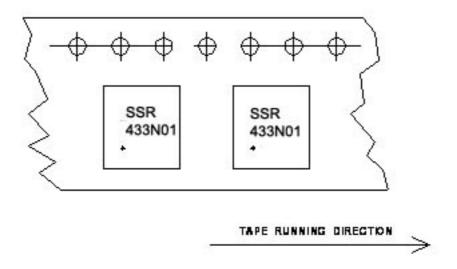
[Unit: mm]

W	F	E	P0	P1	P2	D0	D1	t1	t2	А	В
12.0	5.5	1.75	4.0	8.0	2.0	Φ1.5	Φ1.5	0.31	1.95	5.5	5.5
±0.3	±0.1	±0.1	±0.2	±0.1	±0.2	±0.1	±0.25	max.	max.	max.	max.

[Figure 2] Reel Dimensions



[Figure 3] Part Direction



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