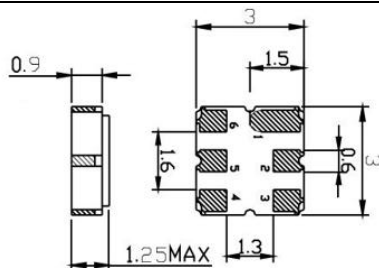


Specification Sheet

Customer Name	XXXX	CUST P/N	NA
Approval No.	PD	Temwell P/N	STSF-433B0P6-S3030W
Lot No.		Date	2025.06.23
Description	SAW Filter (BandPass)	Version	A1

(1)Size Diagram (Unit : MM)



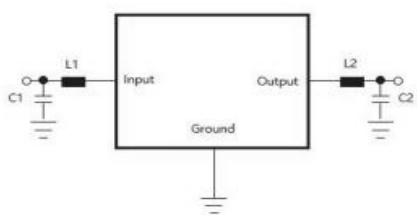
PinNo.	Description
2	Input
5	Output
1,3,4,6	Ground

(2)Electrical Specifications

Item			Specification		
Parameter	MHz	Unit	Min.	Typical	Max.
Center Frequency	-	MHz	-	433.92	-
Insertion Loss	433.92	dB	-	2.5	4.0
Ripple Deviation	433.92	dB	-	0.8	1.0
3dB Bandwidth	-	MHz	-	0.6	0.65
VSWR	433.92	-	-	1.8	2.0
Attenuation	fc±1.0MHz	dB	10	35	-
	fc±10.7MHz	dB	30	38	-
	fc±21.4MHz	dB	40	45	-
Operation Temperature	-40℃~+85℃	℃	-	-	-
Storage Temperature	-40℃~+85℃	℃	-	-	-
RF Power Dissipation	20	dBm	-	-	-

Remark	Note 1: Test Temperature: 25°C±2°C Note 2: Terminating source impedance: 50Ω. Terminating load impedance: 50Ω
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(3) Test Circuit



Port	Matching component
Input	C1: 2.2pF ; L1=22nH
Output	C2: 2.2pF ; L2=22nH

Figure 1 Electrical Characteristics: Frequency Response

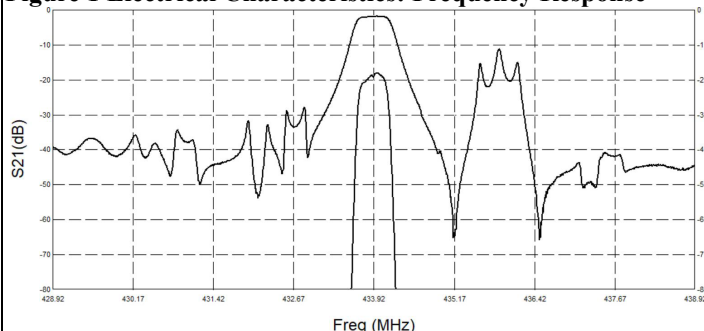
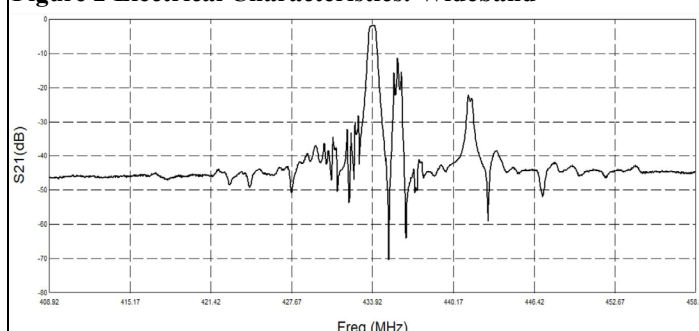
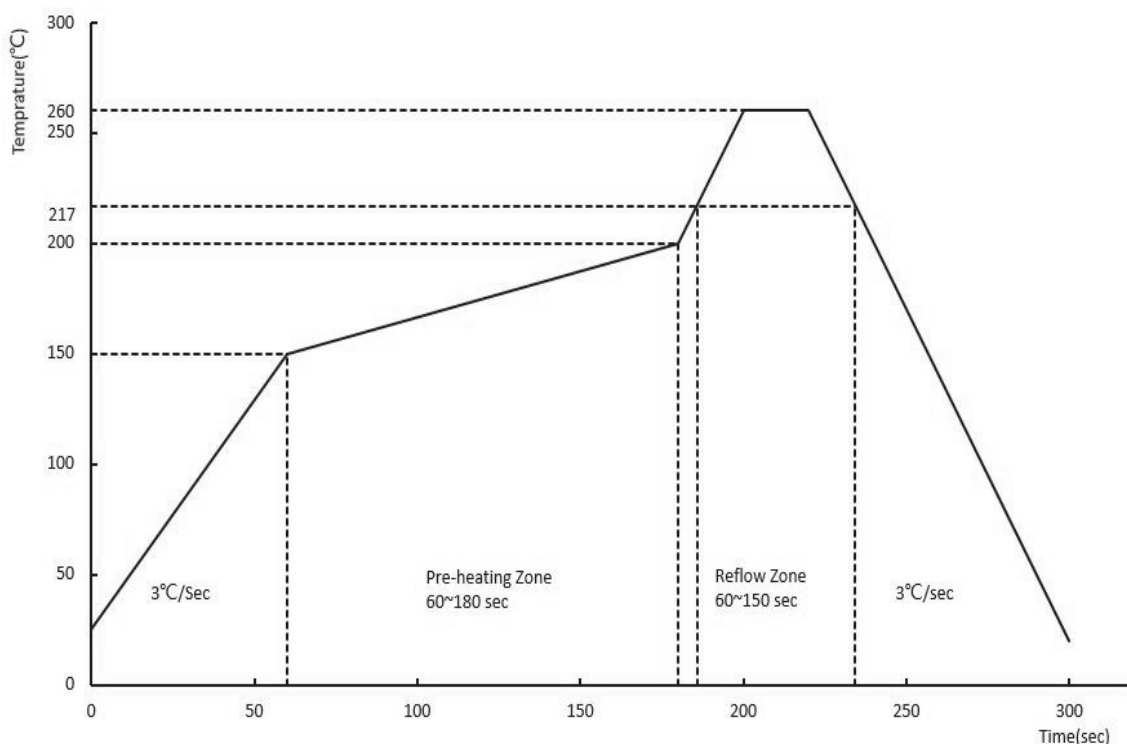


Figure 2 Electrical Characteristics: Wideband



Approval	Supervisor	Designer
C. K. Chang	M. Y. Chen	F.L.Lai

Recommended SMT Solder Profile



Reliability

No.	Test item	Test condition	
1	Temperature Storage	Temperature: 85°C±2°C , Duration: 250h , Recovery time: 2h±0.5h Temperature: -40°C±3°C , Duration: 250h ,Recovery time: 2h±0.5h	
2	Humidity Test	Conditions: 60°C±2°C ,90~95%RH	Duration:250h
3	Thermal Shock	Heat cycle conditions: TA=-40°C±3°C, TB=85°C±2°C, t1=t2=30min, Switch time: ≤3min, Cycle time: 100 times, Recovery time: 2h±0.5h.	
4	Vibration Fatigue	Frequency of vibration:10~55Hz Directions: X,Y and Z	Amplitude:1.5mm Duration: 2h
5	Drop Test	Cycle time:10times	Height:1.0m
6	Solder Ability Test	Temperature:245°C±5°C Depth: DIP--2/3, SMD--1/5	Duration:3.0s--5.0s
7	Resistance to Soldering Heat	Thickness of PCB:1mm , Solder condition: 260°C±5°C , Duration:10±1s Temperature of Soldering Iron: 350°C±10°C, Duration: 3~4s, Recovery time : 2 ± 0.5h	