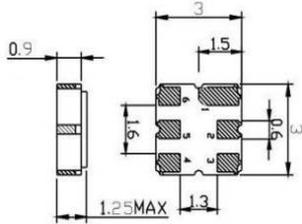


Specification Sheet

Customer Name	XXXX	CUST P/N	NA
Approval No.	PD	Temwell P/N	STSF-847B30-S3030W
Lot No.		Date	2025.06.24
Description	SAW Filter (BandPass)	Version	A1

(1) Size Diagram (Unit : MM)



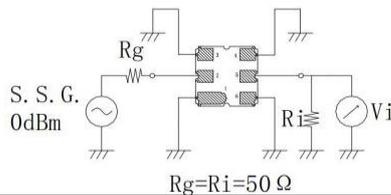
PinNo.	Description
2	Input
5	Output
1,3,4,6	Ground

(2) Electrical Specifications

Item			Specification		
Parameter	MHz	Unit	Min.	Typical	Max.
Center Frequency	-	MHz	-	847	-
Insertion Loss	832-862	dB	-	2.6	4.0
Ripple Deviation	832-862	dB	-	1.0	2.0
Group Delay	832-862	ns	-	40	100
VSWR	832-862	-	-	1.8	2.0
Attenuation	DC-650	dB	50	55	-
	692-722	dB	50	55	-
	762-792	dB	45	50	-
	792-821	dB	30	35	-
	902-932	dB	35	40	-
	1000-3000	dB	20	25	-
Operation Temperature	-40°C~+85°C	°C	-	-	-
Storage Temperature	-40°C~+85°C	°C	-	-	-
RF Power Dissipation	20	dBm	-	-	-

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

(3) Test Circuit



Port	Matching component
Input	R1: 50Ω
Output	R2: 50Ω

Figure 1 Electrical Characteristics: Frequency Response

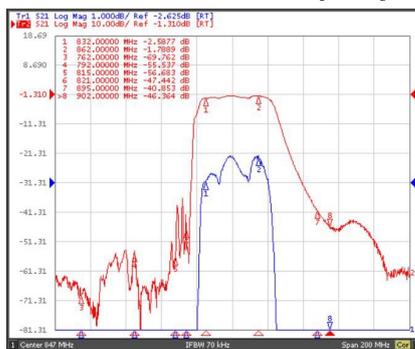
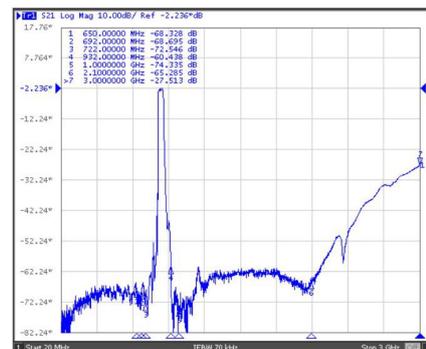
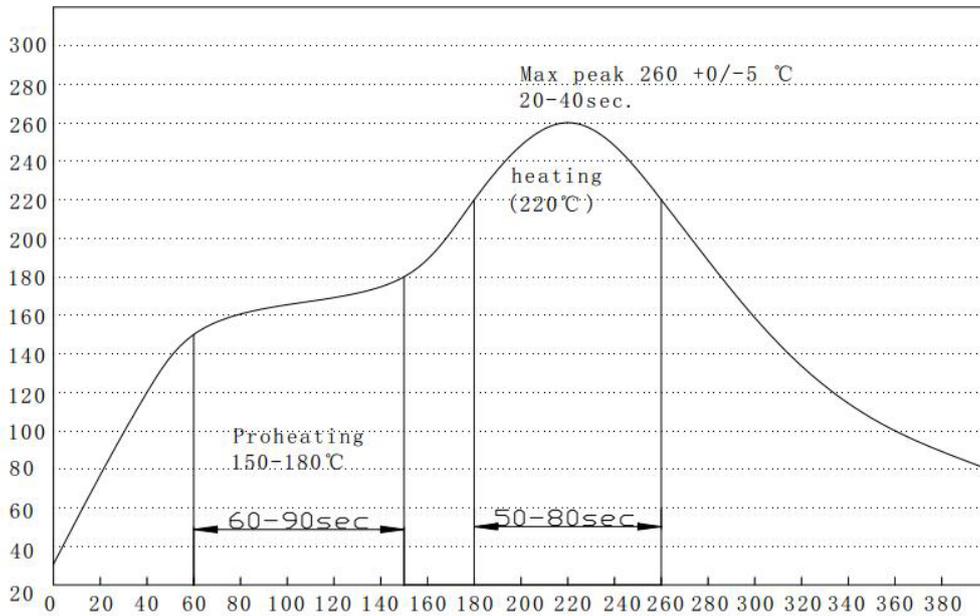


Figure 2 Electrical Characteristics: Wideband



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 \pm 2°C , Duration: 250h , Recovery time: 2h \pm 0.5h Temperature: -40°C \pm 3°C , Duration: 250h ,Recovery time: 2h \pm 0.5h	
2	Humidity Test	Conditions: 60°C \pm 2°C ,90~95%RH	Duration:250h
3	Thermal Shock	Heat cycle conditions: TA=-40°C \pm 3°C, TB=85°C \pm 2°C, t1=t2=30min, Switch time: \leq 3min, Cycle time: 100 times, Recovery time: 2h \pm 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 \pm 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 \pm 5°C , Duration:10 \pm 1s Temperature of Soldering Iron: 350°C \pm 10°C, Duration: 3~4s, Recovery time : 2 \pm 0.5h	