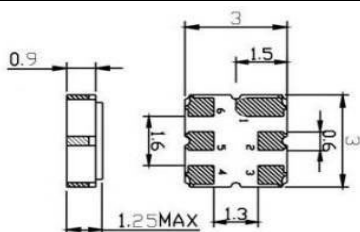


Specification Sheet

Customer Name	XXXX	CUST P/N	NA
Approval No.	PD	Temwell P/N	STSF-2535B70-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
Tolerance	±0.1mm

(2)Electrical Specifications

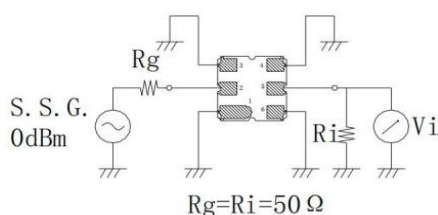
Item			Specification		
Parameter	MHz	Unit	Min.	Typical	Max.
Center Frequency	-	MHz	-	2535	-
Insertion Loss	2535	dB	-	2.7	3.5
Insertion Loss	2500-2570	dB	-	3.5	4.5
Ripple	2500-2570	dB	-	0.8	2.2
Group Delay	2500-2570	ns	-	10	30
Attenuation	DC-2100	dB	25	30	-
	2100-2400	dB	30	35	-
	2650-4000	dB	30	38	-
	4000-5000	dB	20	25	-
VSWR	2500-2570	-	-	2.0:1	2.2:1
Operation Temperature	-40℃~+85℃	℃	-	-	-
Storage Temperature	-40℃~+125℃	℃	-	-	-
RF Power Dissipation	20	dBm	-	-	-

Remark

Note 1: Test Temperature: 25℃±2℃

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

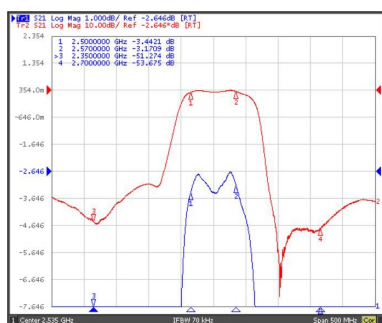
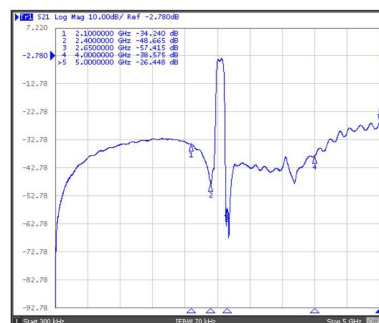
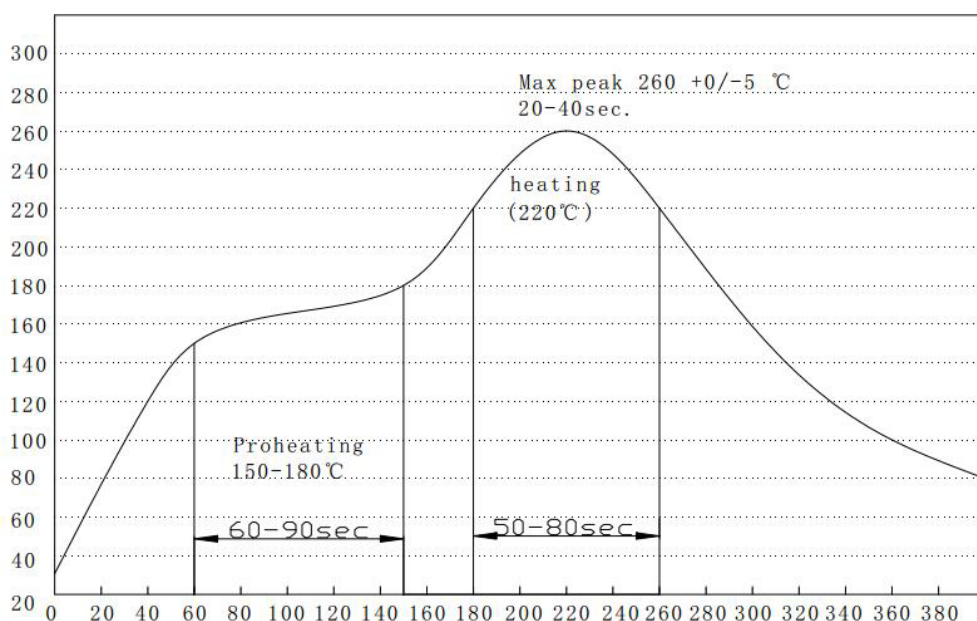


Figure 2. Electrical Characteristics: Wideband



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	