

# Specification Sheet

Customer Name	XXXX	CUST P/N	NA
Approval No.	PD	Temwell P/N	STSF-2000B40-S1109W
Lot No.		Date	2025.04.25
Description	SAW Filter (BandPass)	Version	A1

**(1) Size Diagram (Unit : MM)**

**Top View**

**Side View**

**Bottom View**

Pin	Configuration
1	Input
4	Output
Others	Ground

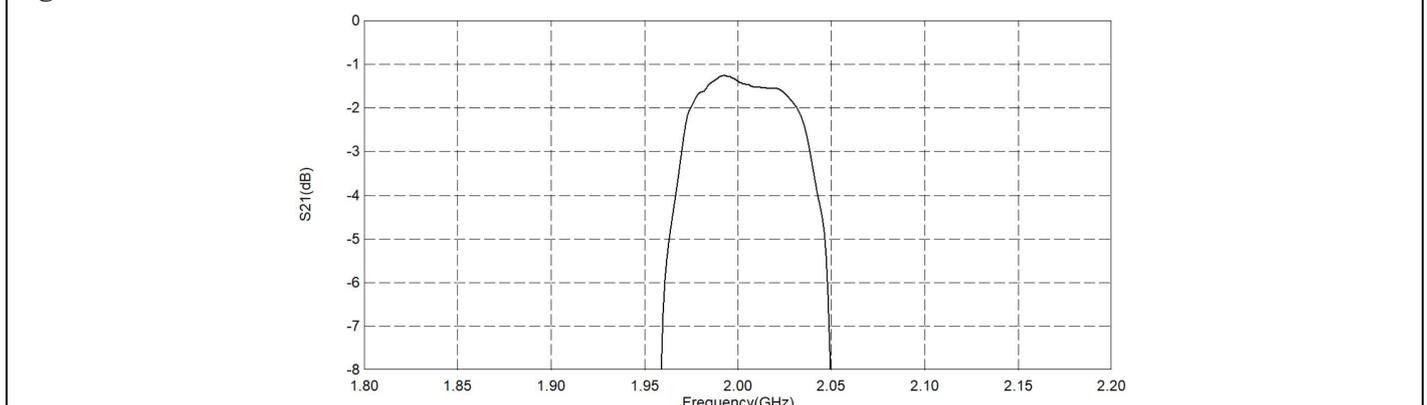
**(2) Electrical Specifications**

Item			Specification		
Parameter	MHz	Unit	Min.	Typical	Max.
Center Frequency	-	MHz	-	2000	-
Insertion Loss	1980-2020	dB	-	1.6	2.0
Inband Ripple	1980-2020	dB	-	0.5	1.0
VSWR	1980-2020	-	-	1.5	1.8
Attenuation	1164-1189	dB	38	43	-
	1559-1564	dB	40	45	-
	1573-1578	dB	40	45	-
	1597-1606	dB	40	46	-
	4000-4100	dB	38	43	-
Operation Temperature	-20°C~+85°C	°C	-	-	-
Storage Temperature	-40°C~+85°C	°C	-	-	-
RF Power Dissipation	+29	dBm	-	-	-

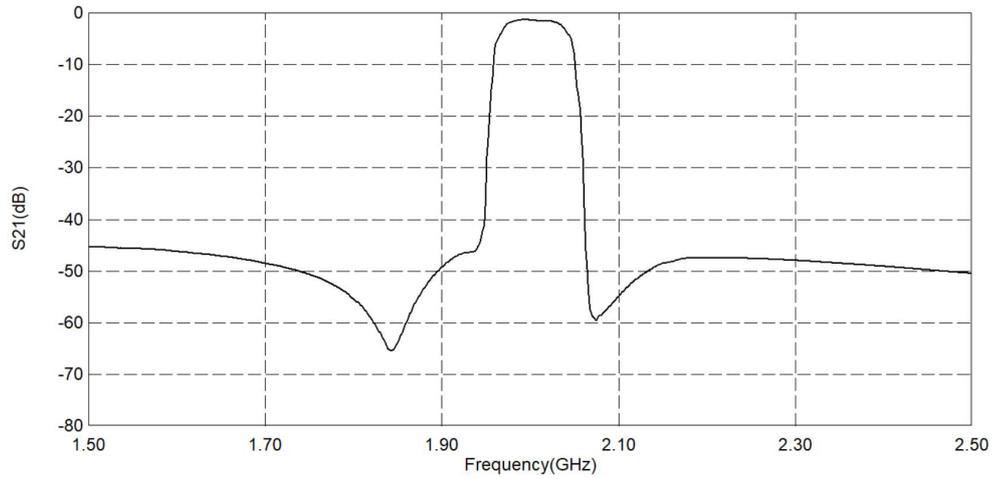
Remark: Note 1: Test Temperature: 25°C±2°C  
 Note 2: Terminating source impedance: 50Ω. Terminating load impedance: 50Ω

**(3) Test Circuit**

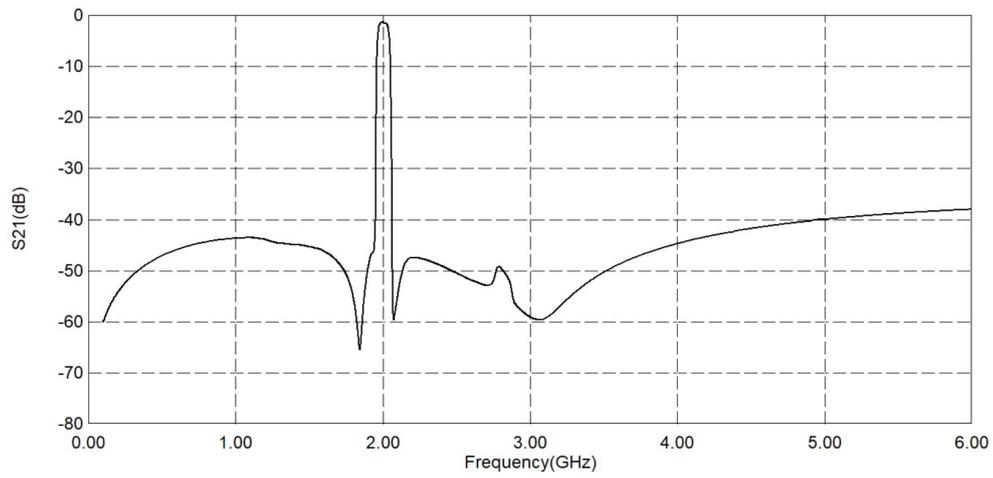
Port	Matching Component
Input	R1 : 50Ω
Output	R2 : 50Ω

**Figure 1 Electrical Characteristics: Passband**


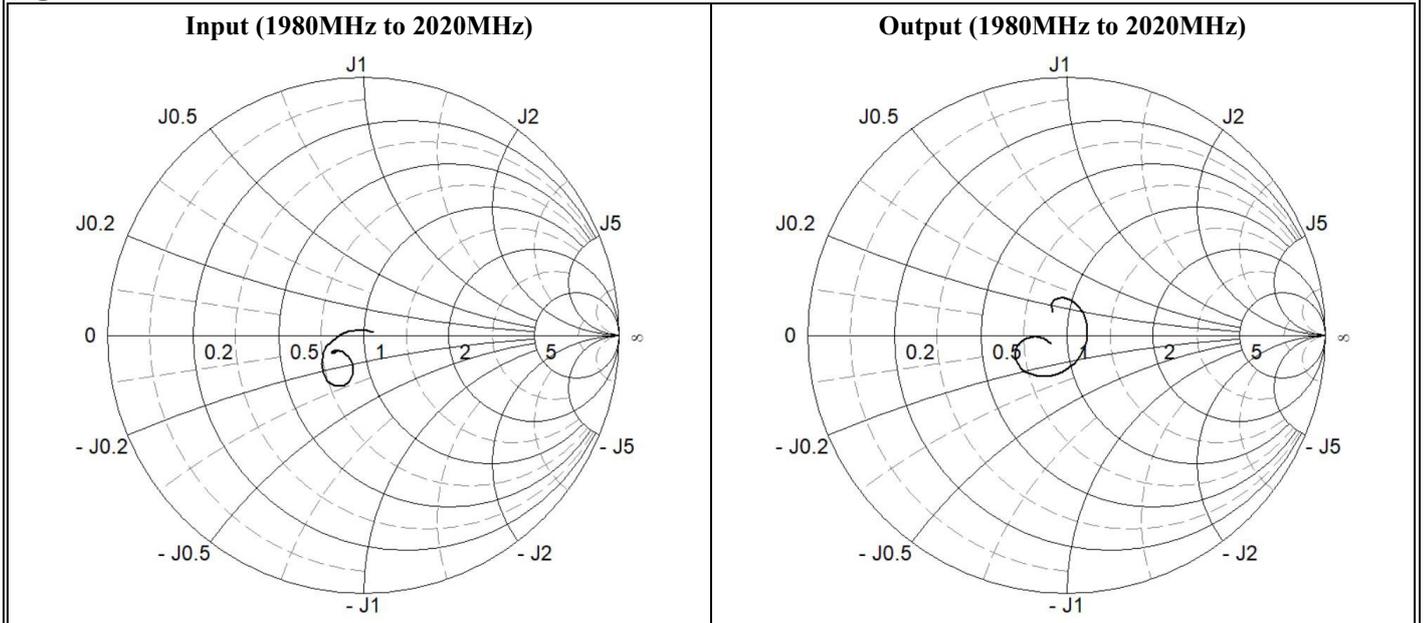
**Figure 2 Electrical Characteristics: Narrowband**



**Figure 3 Electrical Characteristics: Wideband**

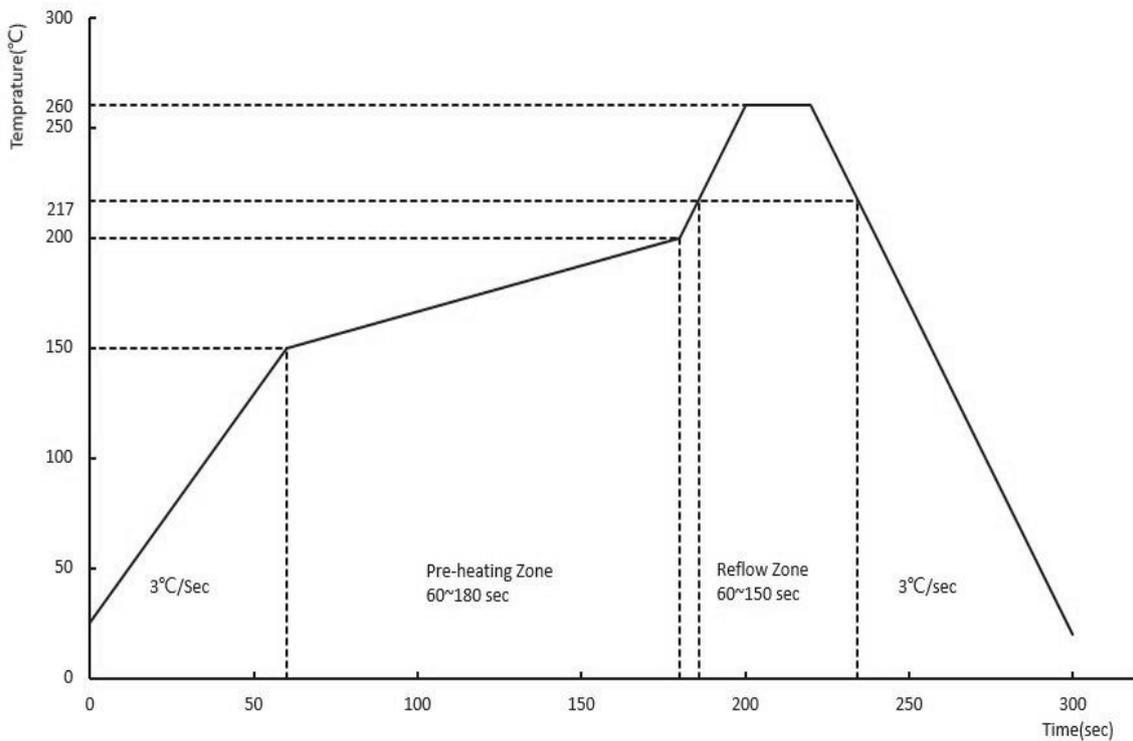


**Figure 4 Smith Chart**



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	