

SAW Filter 2605.0MHz

Model No: TA1964C

Part No: MP08103

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 28.5dBm, 5000h 55°C
2. DC Voltage: 3V (25 ±2°C)
3. Operating Temperature: -20°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 3
6. ESD: 1A (Max. voltage: 499V) (HBM), M1 (Max. voltage: 100V) (MM)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.	Note	
Center Frequency Fc	MHz	-	2605	-	-	
Insertion Loss IL	2555 ~ 2575MHz	dB	-	1.9	3.3	-
	2575 ~ 2635MHz	dB	-	1.6	2.4	-
	2635 ~ 2655 MHz	dB	-	2.1	3.6	-
	2555 ~ 2575MHz	dB	-	1.9	2.5	+23 ~ +27°C
	2575 ~ 2635MHz	dB	-	1.6	2.1	+23 ~ +27°C
	2635 ~ 2655MHz	dB	-	2.1	2.7	+23 ~ +27°C
Amplitude Ripple	2555 ~2655MHz	dB p-p	-	0.7	2.3	-
	2555 ~2655MHz	dB p-p	-	0.7	1.4	+23 ~ +27°C
VSWR	2555 ~2655MHz	-	-	1.7	2.4	-
	2555 ~2655MHz	-	-	1.7	2.4	+23 ~ +27°C
Attenuation (Reference level from 0 dB)						
10 ~ 960MHz	dB	31	38	-	-	
1225 ~ 1559MHz	dB	30	36	-	-	
1559 ~ 1606MHz	dB	30	36	-	-	
1606 ~ 1710MHz	dB	28	35	-	-	
1710 ~ 2170MHz	dB	27	34	-	-	
2170 ~ 2400MHz	dB	28	35	-	-	
2401 ~ 2438MHz	dB	32	39	-	-	
2421 ~ 2483MHz	dB	26	33	-	-	
2750 ~ 4900MHz	dB	31	38	-	-	
4900 ~ 6000MHz	dB	41	48	-	-	
6000 ~ 8000MHz	dB	48	55	-	-	

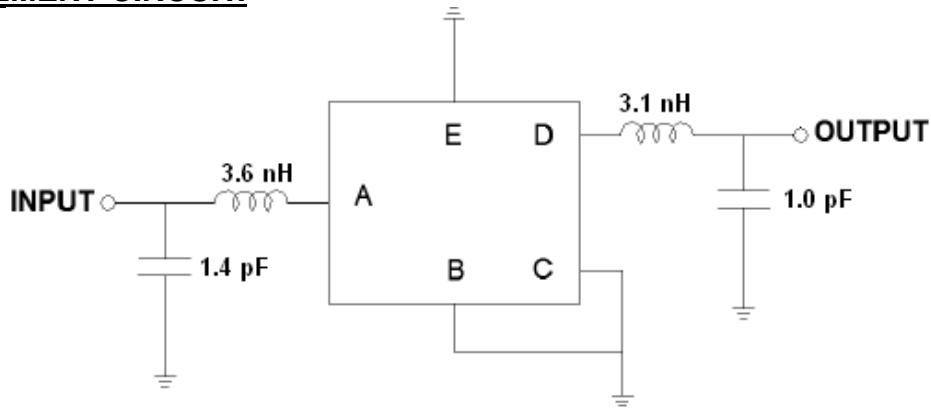
SAW Filter 2605.0MHz

Model No: TA1964C

Part No: MP08103

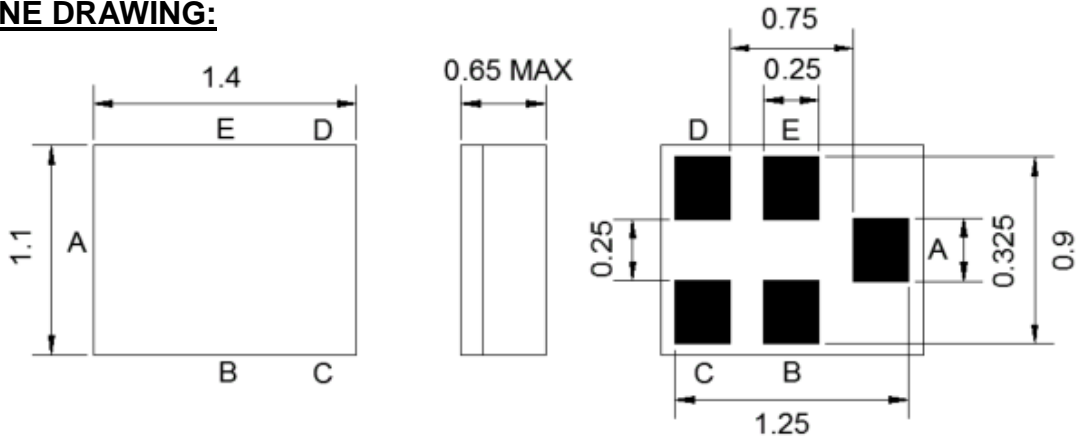
Rev No: 1

C. MEASUREMENT CIRCUIT:



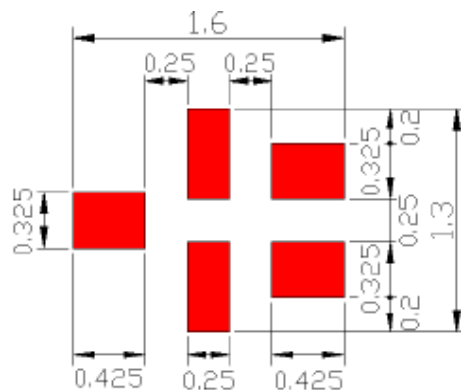
Source & Load Impedance: 50 Ω

D. OUTLINE DRAWING:



Pin Description	
B, C, E	Ground
A	Input
D	Output

E. PCB FOOTPRINT:



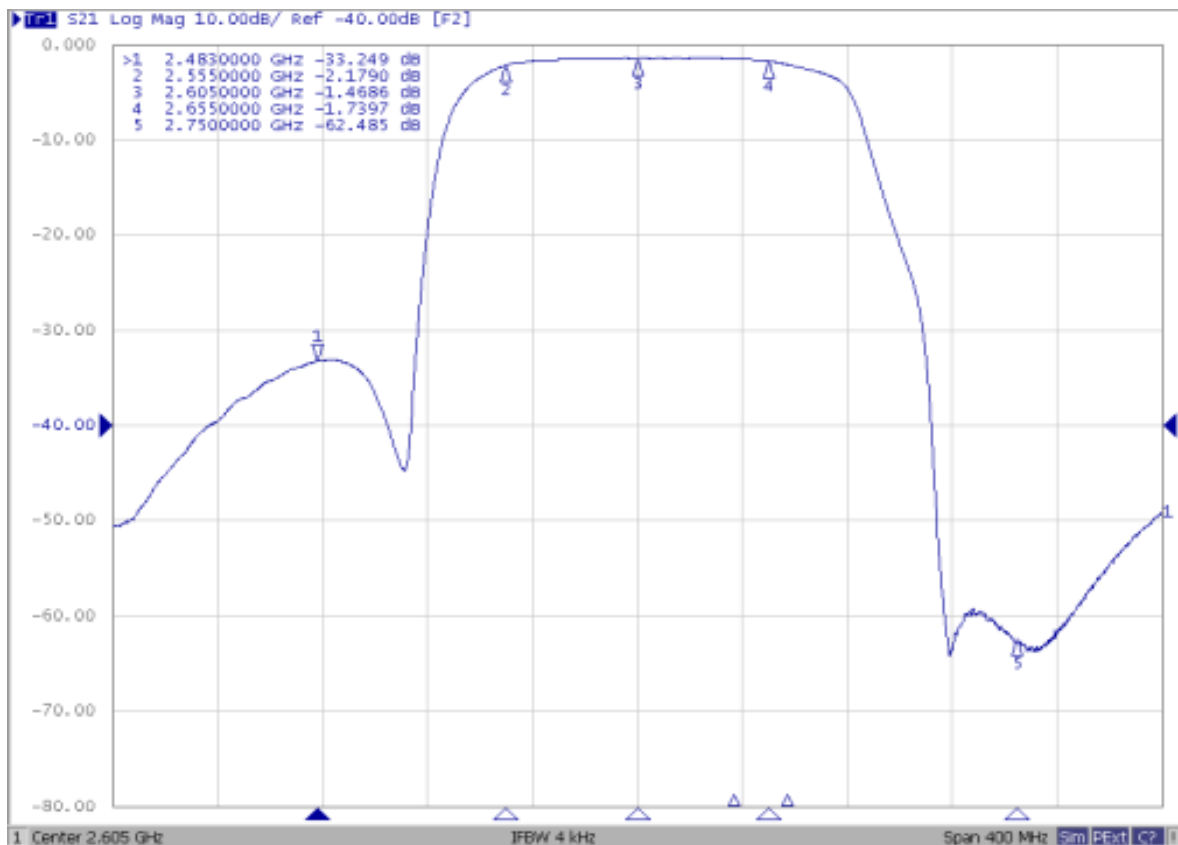
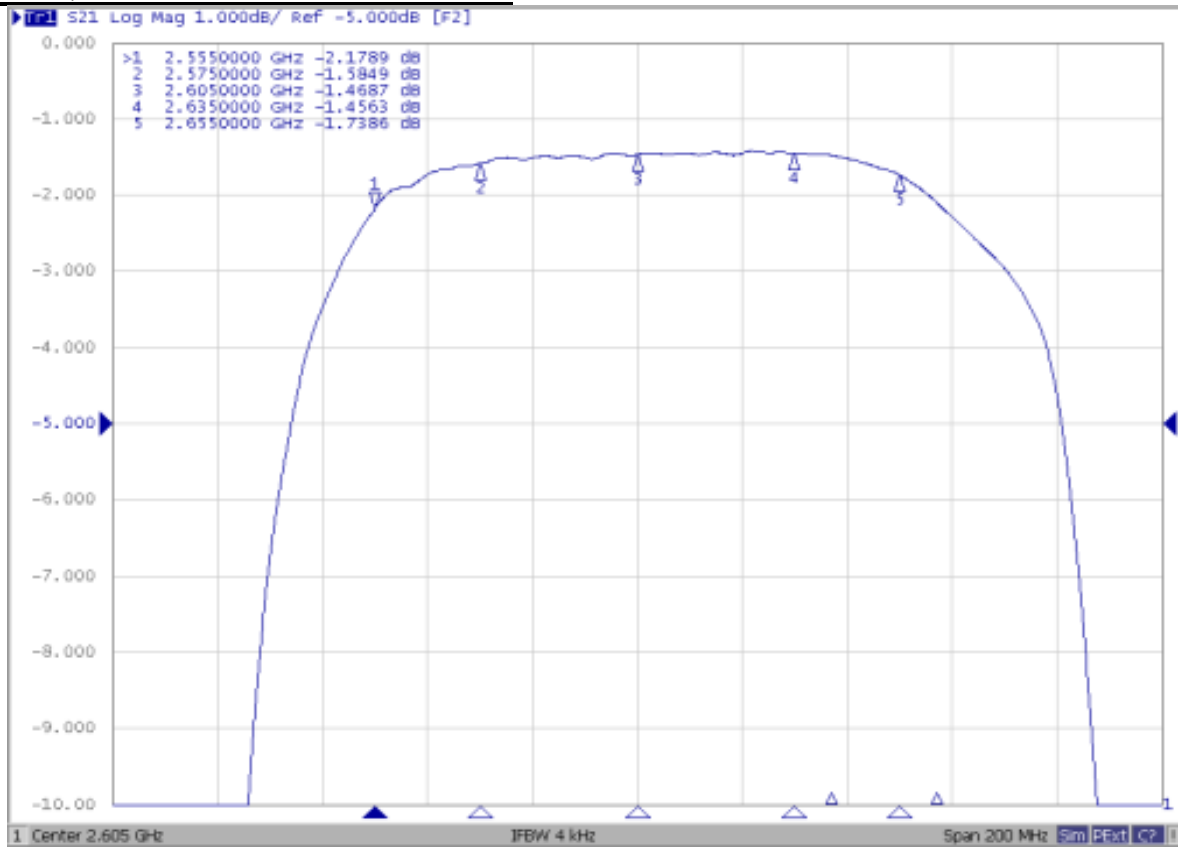
: Land Pattern

Unit: mm

SAW Filter 2605.0MHz
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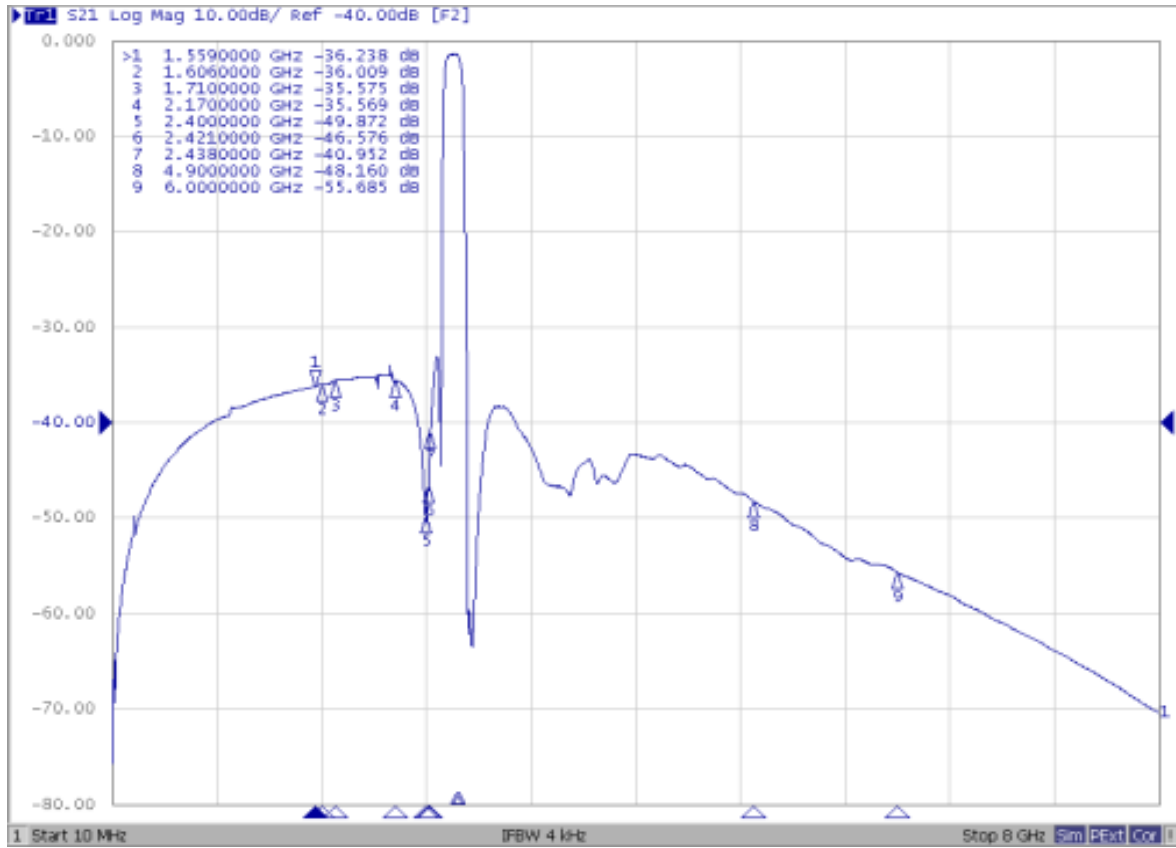
Model No: TA1964C
Rev No: 1

F. FREQUENCY CHARACTERISTICS:



SAW Filter 2605.0MHz
Part No: MP08103

Model No: TA1964C
Rev No: 1

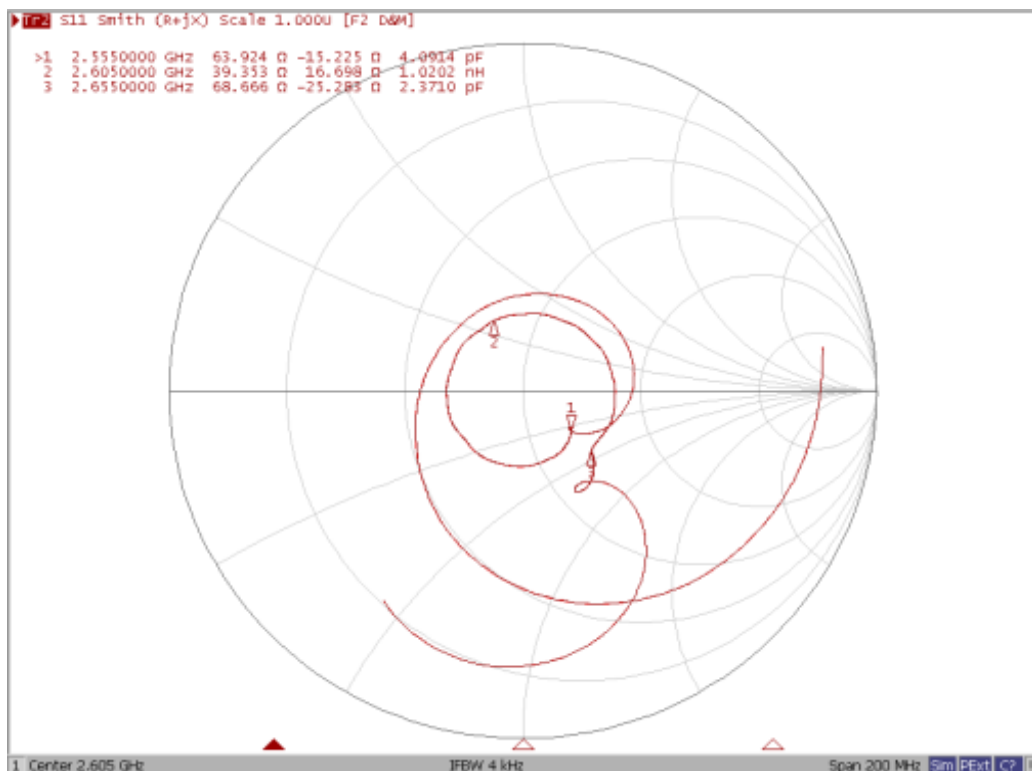
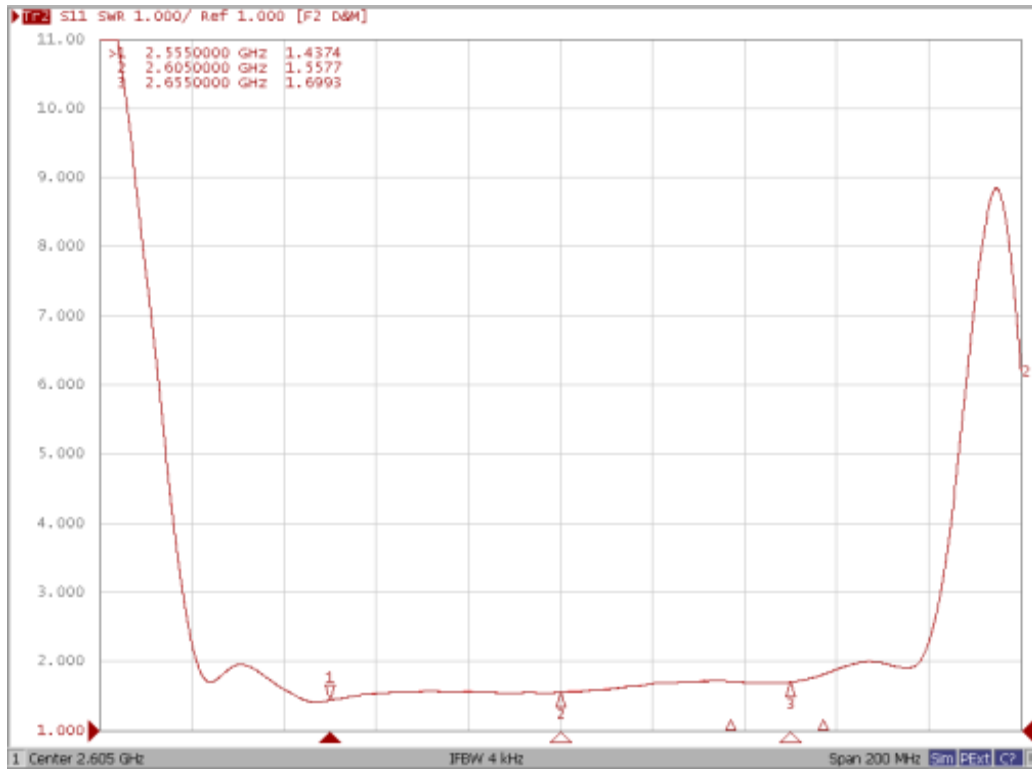


SAW Filter 2605.0MHz
Part No: MP08103

Model No: TA1964C
Rev No: 1

Reflection Functions

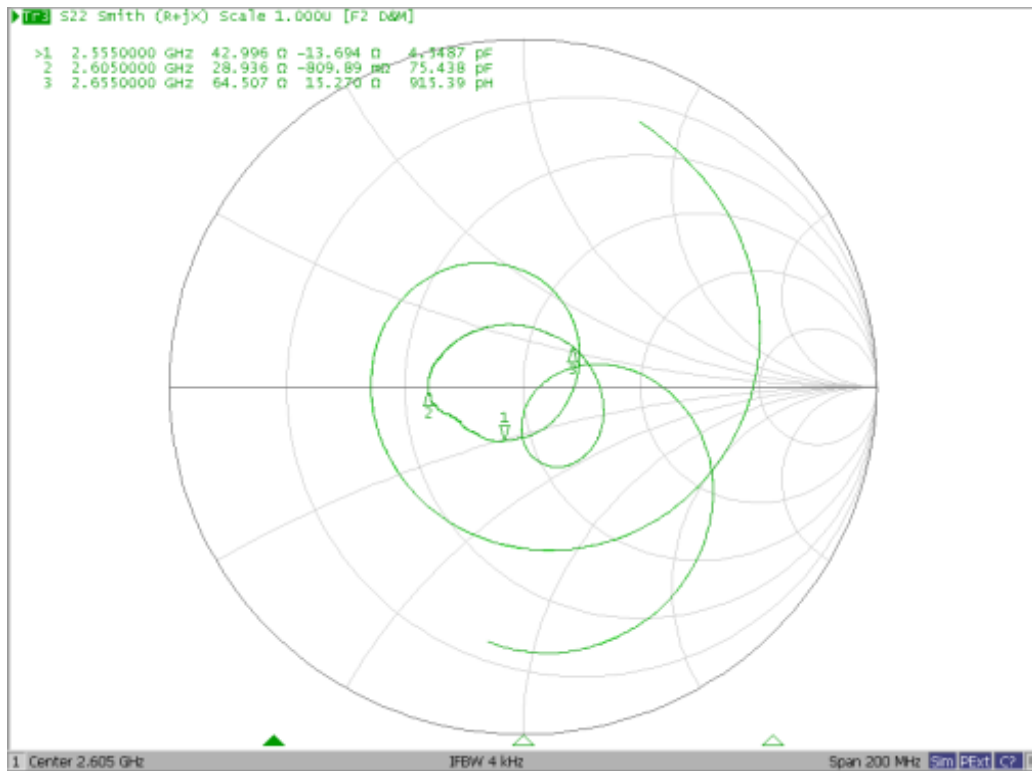
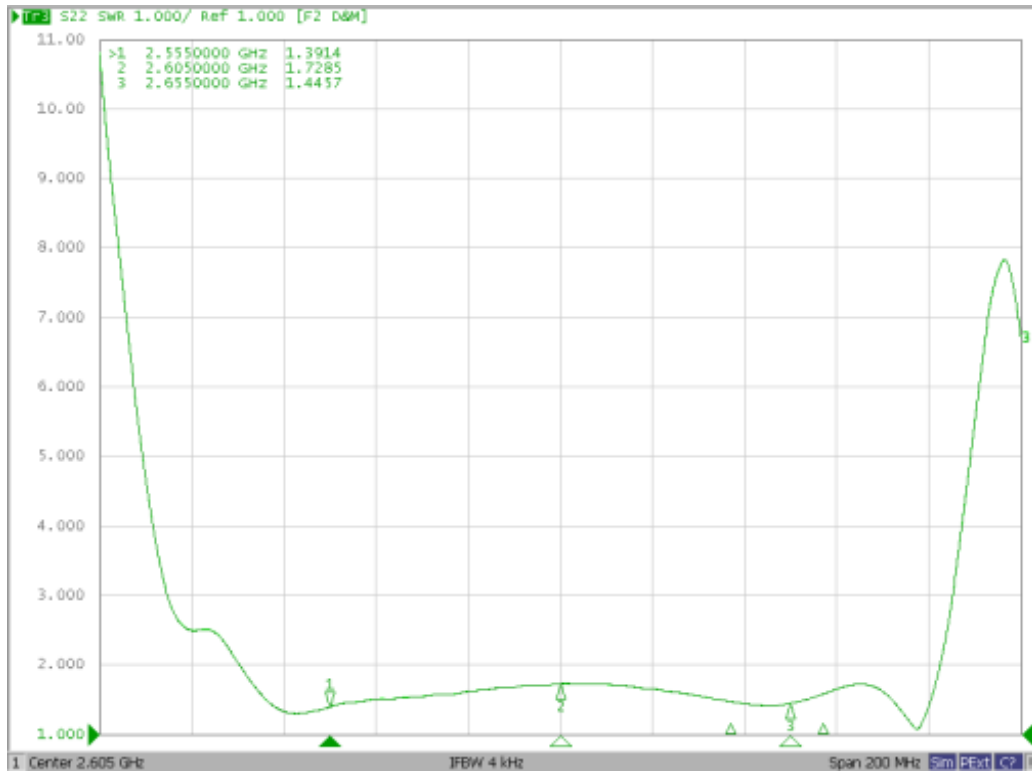
S11



SAW Filter 2605.0MHz
Part No: MP08103

Model No: TA1964C
Rev No: 1

S22

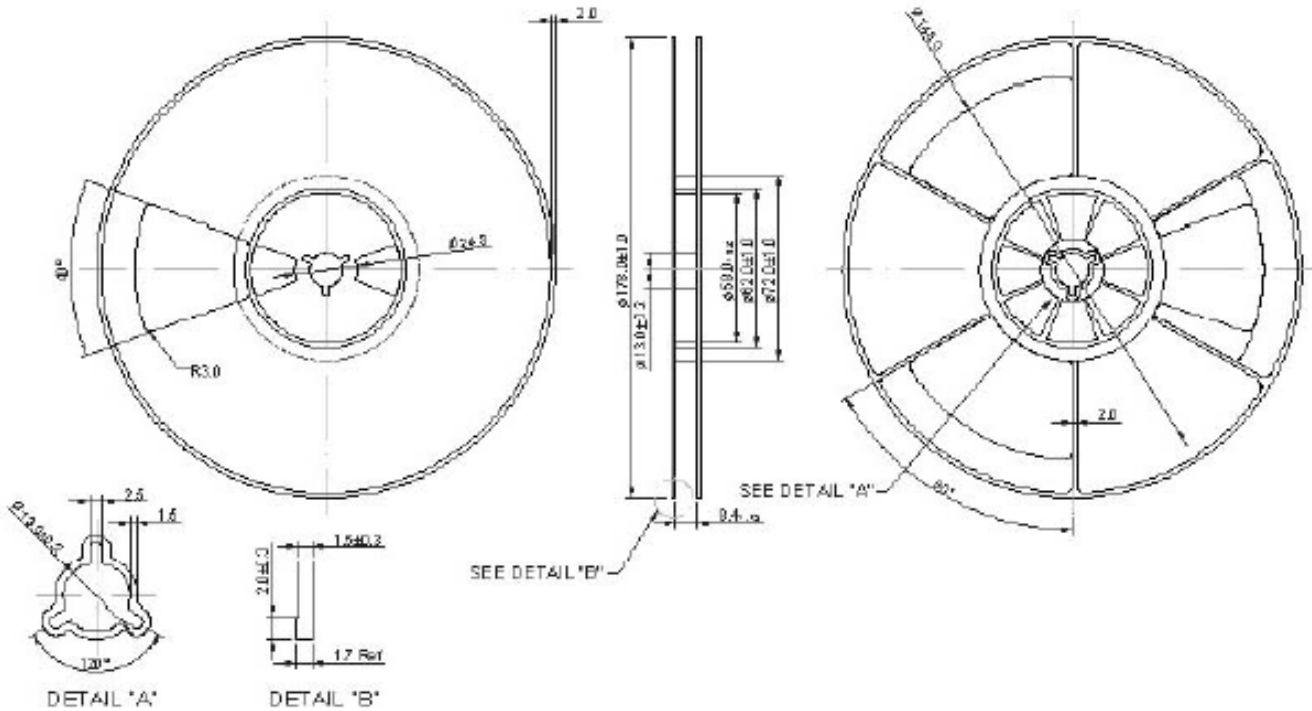


SAW Filter 2605.0MHz
Part No: MP08103

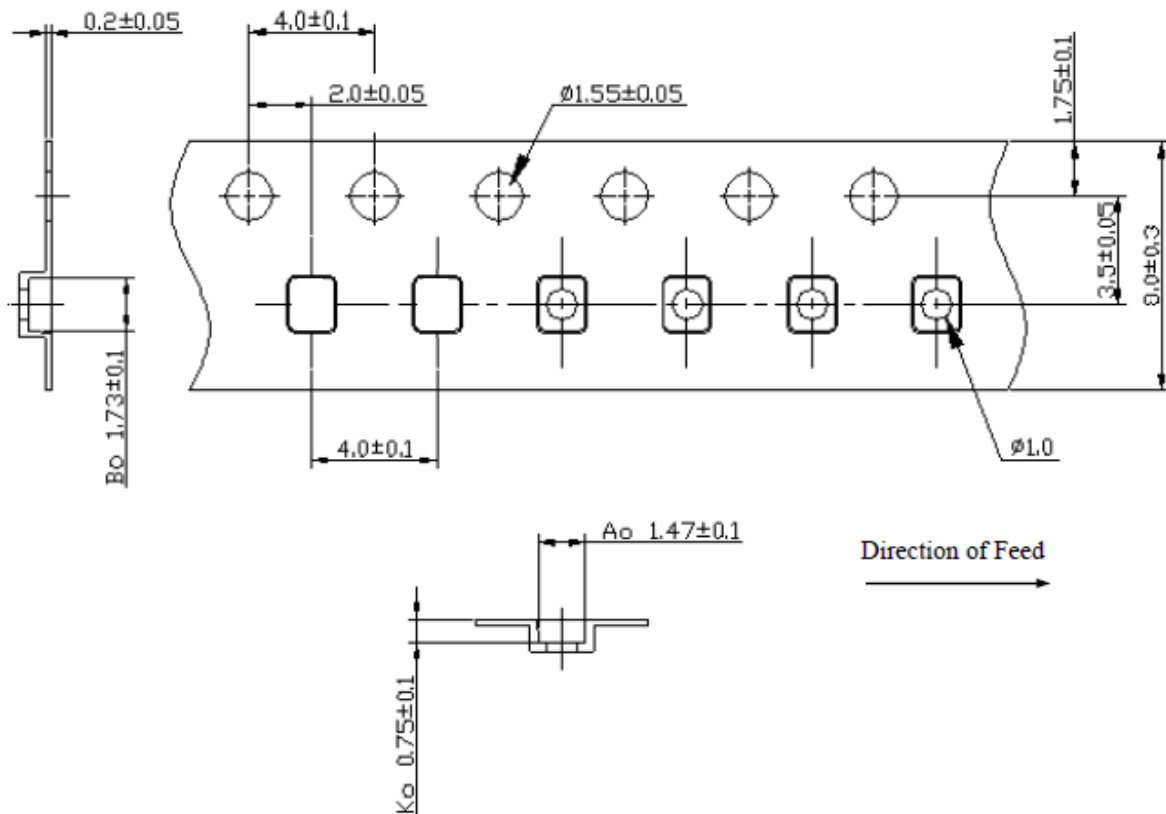
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.

