

**SAW Filter 2350.0MHz**

**Model: TA2404B**

**Part No: MP10090 (AEC-Q200 compliant)**

**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Input Power Level:  
 @ Input Power (2300 ~ 2400MHz): 29dBm, CW, +50°C, 5000H.  
 @ Input Power (2300 ~ 2390MHz): 29dBm, LTE QPSK 5MHz full RB (50% duty cycle), +50°C, 5000H.
2. DC Voltage: 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -55°C to +125°C
5. Moisture Sensitivity Level: Level 3
6. ESD 50V (MM), 100V (HBM)

**B. ELECTRICAL CHARACTERISTICS:**

1. Terminating source impedance:  $Z_S = 50 // 5.1nH \Omega$  (Single-ended)
2. Terminating load impedance:  $Z_L = 50 // 5.1nH \Omega$  (Single-ended)

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	2350	-	-
Insertion Loss (2300 ~ 2400MHz) IL	dB	-	1.4	2.0 (*1)	Ta=+25°C
Insertion Loss (2300 ~ 2400MHz) IL	dB	-	1.4	2.3 (*1)	
Input VSWR (2300 ~ 2400MHz)		-	1.6	2.2	-
Output VSWR (2300 ~ 2400MHz)			1.6	2.2	
Attenuation (reference level from 0dB)					
10 ~ 1565MHz	dB	22	25	-	-
1565~ 1606MHz	dB	22	25	-	-
2426 ~ 2463MHz	dB	27	49	-	Ta=-20 to+25°C
	dB	45	49		Ta=-25 to+85°C
4600 ~ 4800MHz	dB	30	42	-	-
2423 ~ 2441MHz	dB	30	56	-	Ta=-20 to+25°C WiFi CH5 (*2)
	dB	45	56	-	Ta=-25 to+85°C WiFi CH5 (*2)

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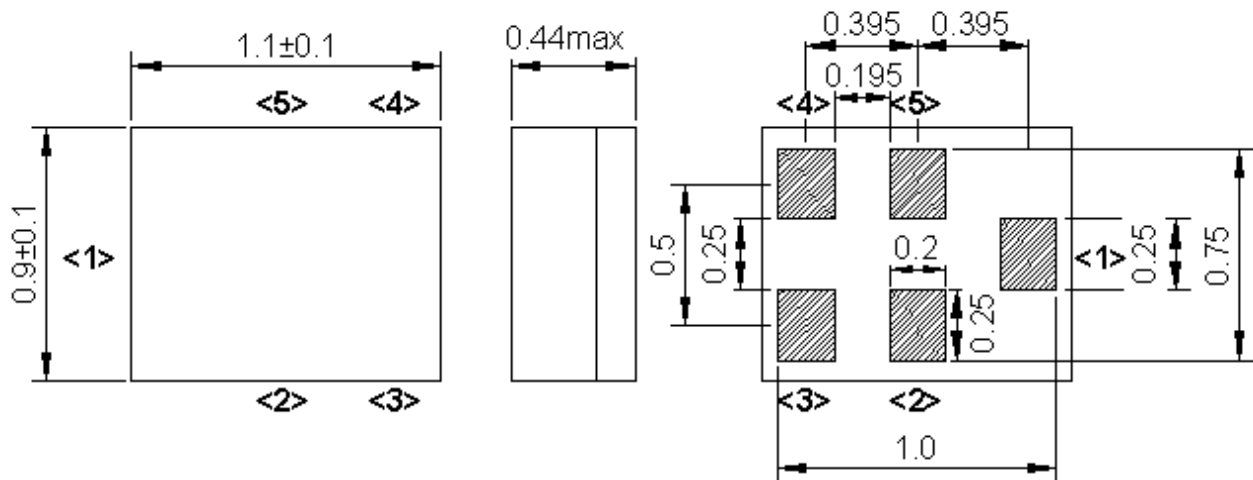
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2428 ~ 2446MHz	dB	45	59	-	Ta=-25 to+85°C WiFi CH6 (*2)
2433 ~ 2451MHz	dB	49	60	-	WiFi CH7 (*2)
2438 ~ 2456MHz	dB	45	60	-	WiFi CH8 (*2)
2443 ~ 2461MHz	dB	45	60	-	WiFi CH9 (*2)
2448 ~ 2466MHz	dB	45	59	-	WiFi CH10 (*2)
2453 ~ 2471MHz	dB	43	55	-	WiFi CH11 (*2)
2458 ~ 2476MHz	dB	40	50	-	WiFi CH12 (*2)
2463 ~ 2481MHz	dB	38	46		WiFi CH13 (*2)

(\*1) Specification of insertion loss excludes loss that comes from the test board.

(\*2) Integrated attenuation over 18MHz CH BW.

**C. OUTLINE DRAWING:**



Not Specified Tolerance:  $\pm 0.1$  mm

**Pin assignment**

Pin No.	Pin name	Description
1	In	Input
2	GND	Ground
3	GND	Ground
4	Out	Output
5	GND	Ground

**Figure 1. Dimensions and Pin assignment**

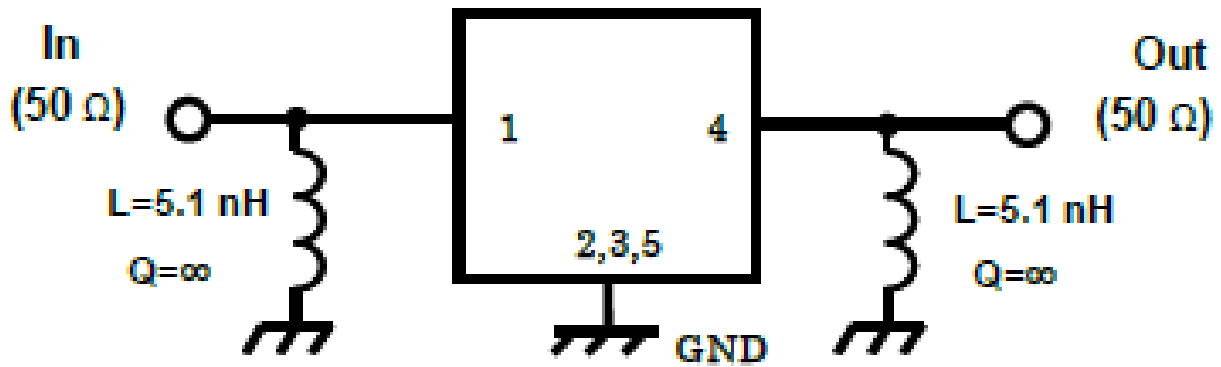
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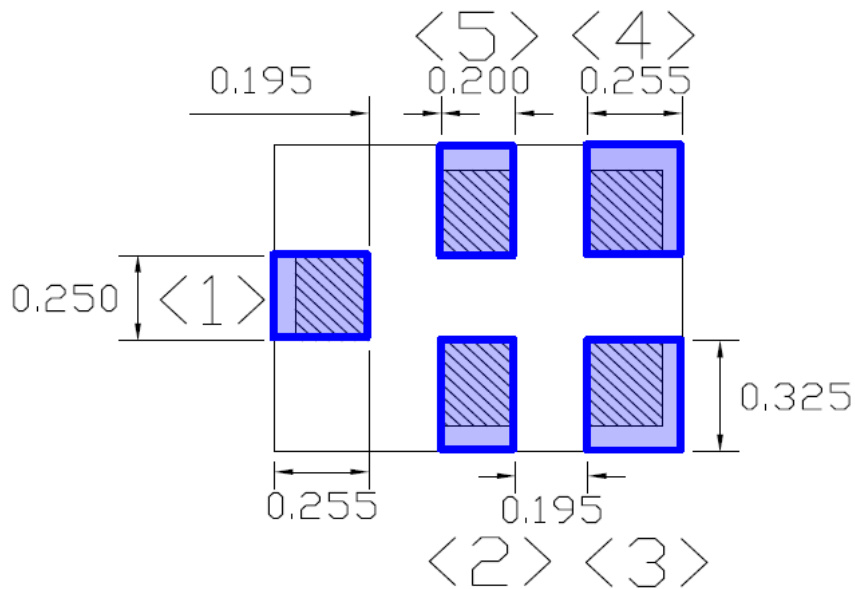
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**D. MEASUREMENT CIRCUIT:**



**1 to 5: Pin No.**

**E. PCB FOOTPRINT:**

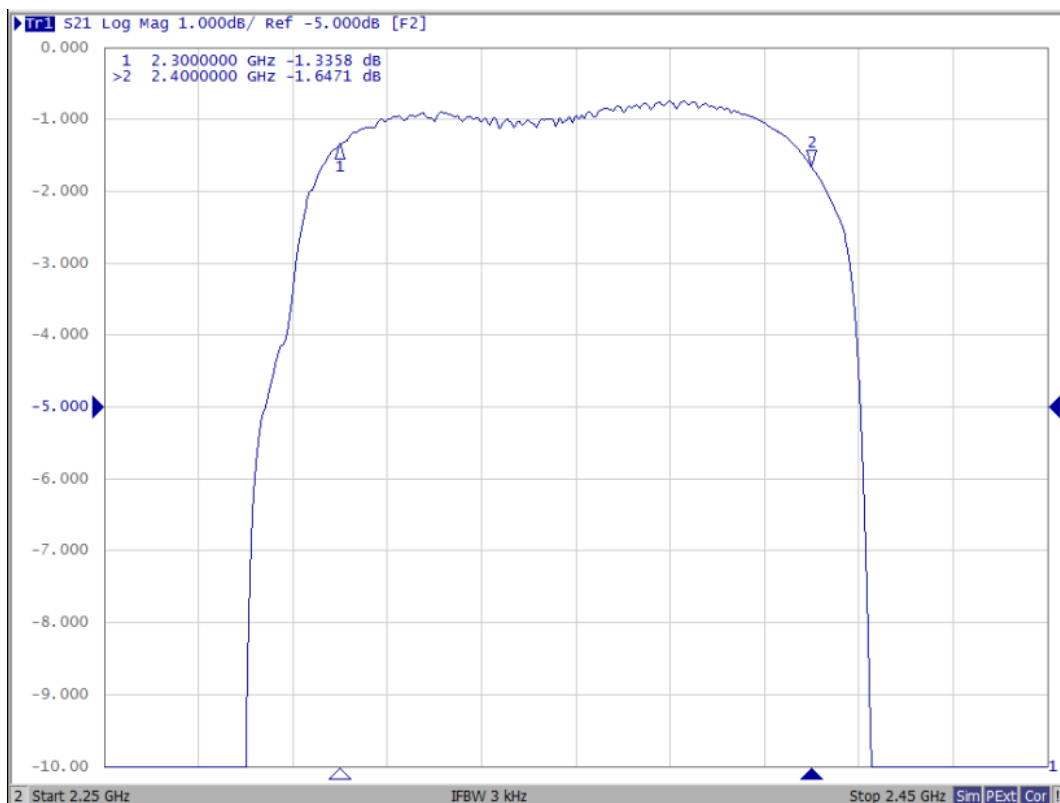
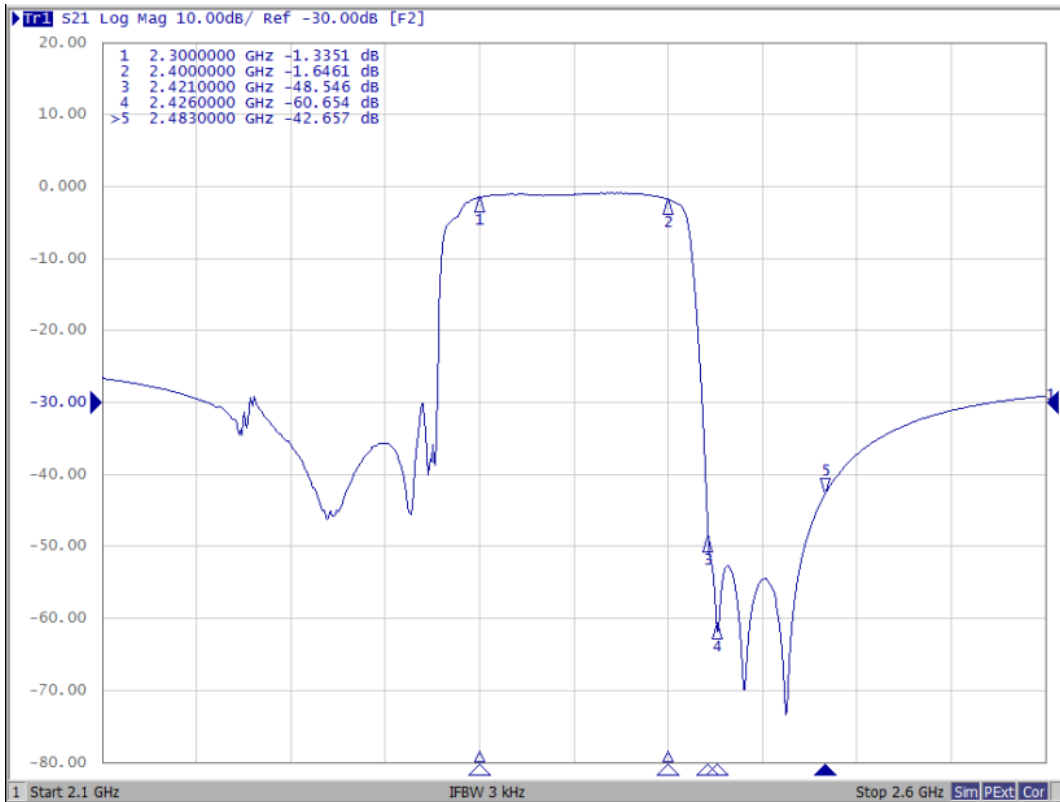


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**F. FREQUENCY CHARACTERISTICS:**

1. Passband

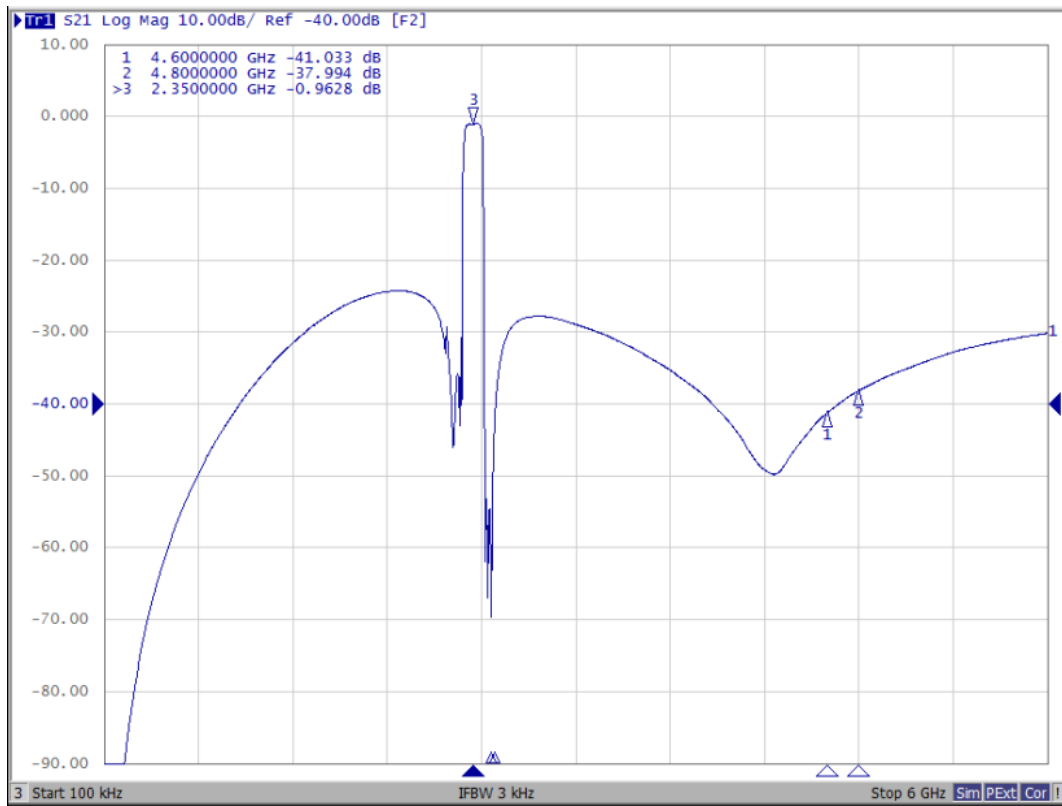


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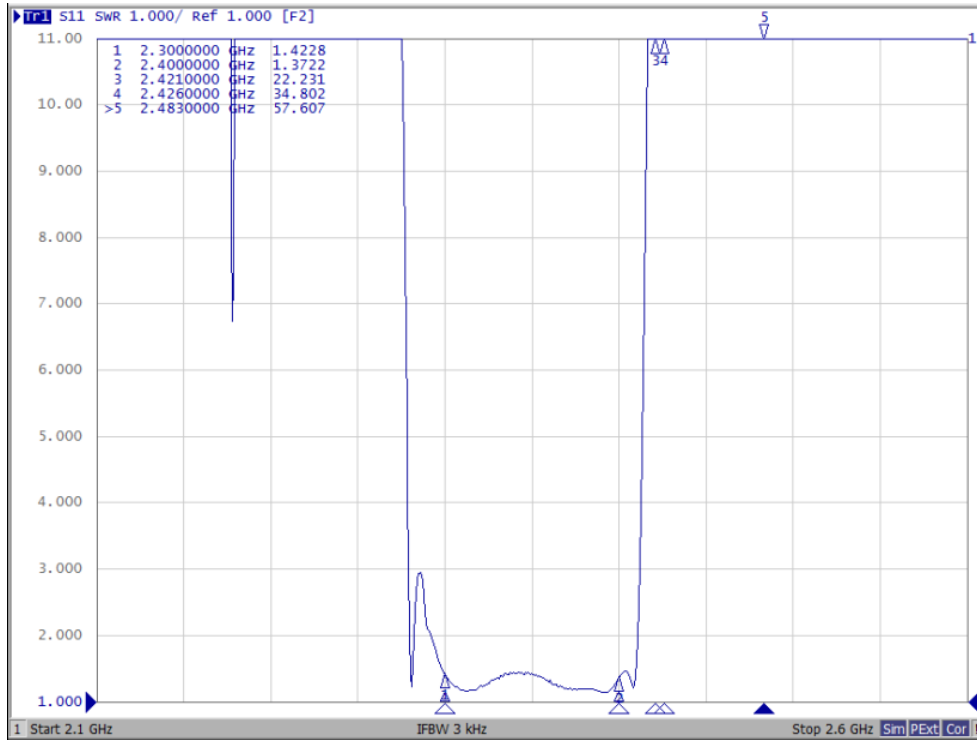


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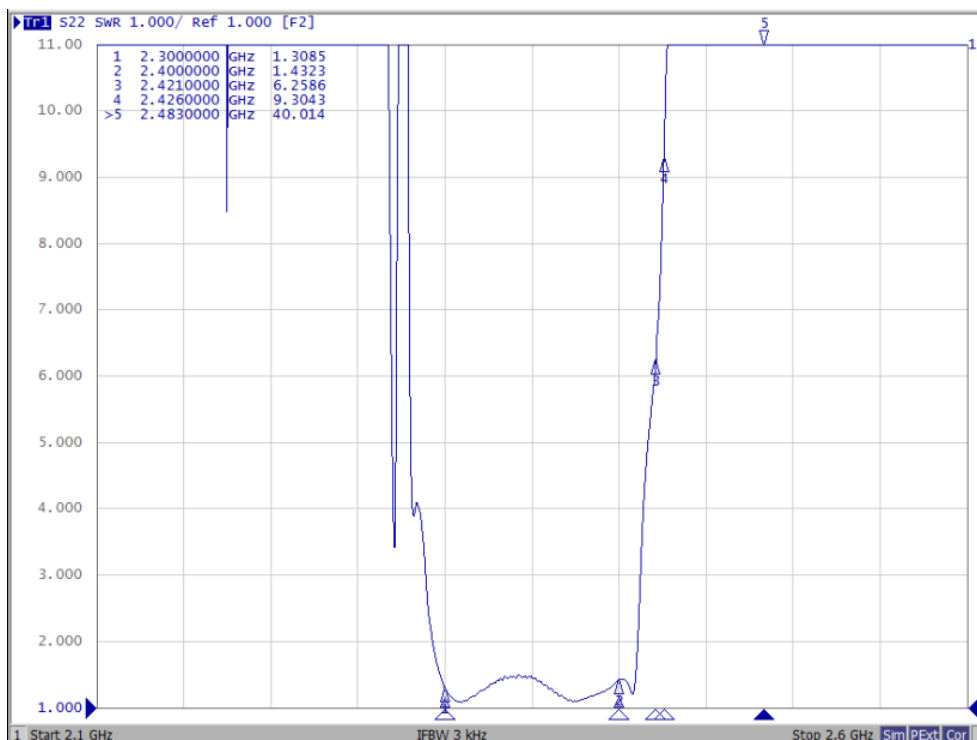
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2. Reflection functions

S11 VSWR



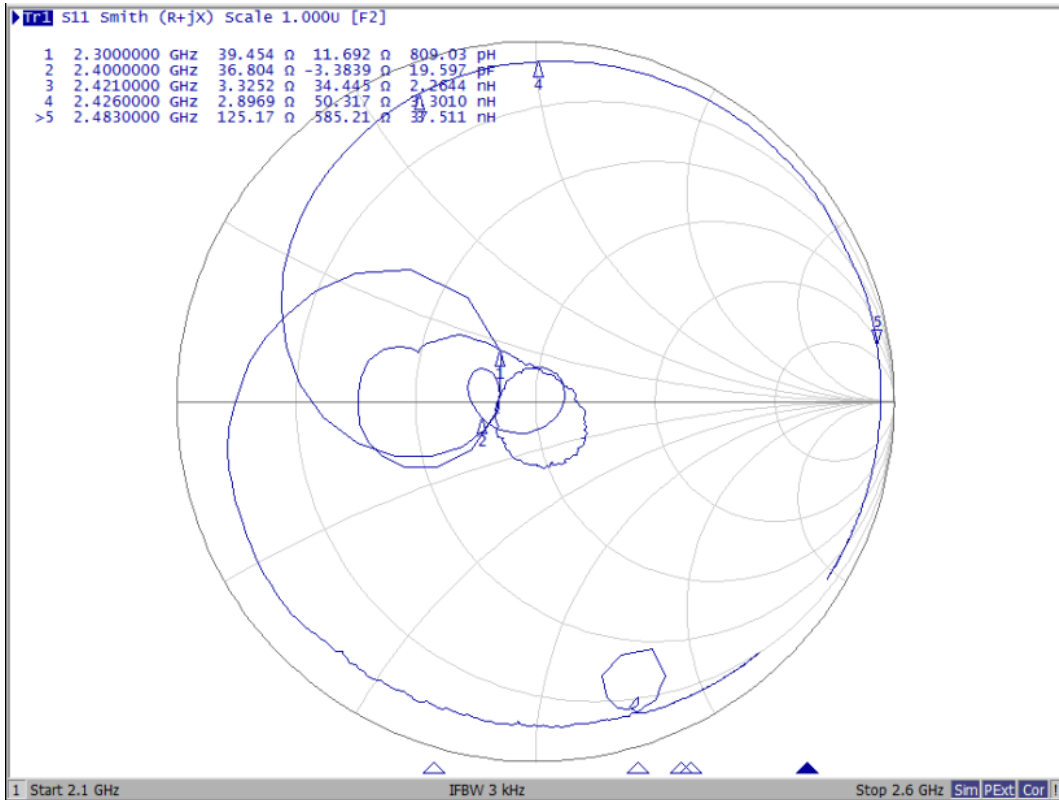
S22 VSWR



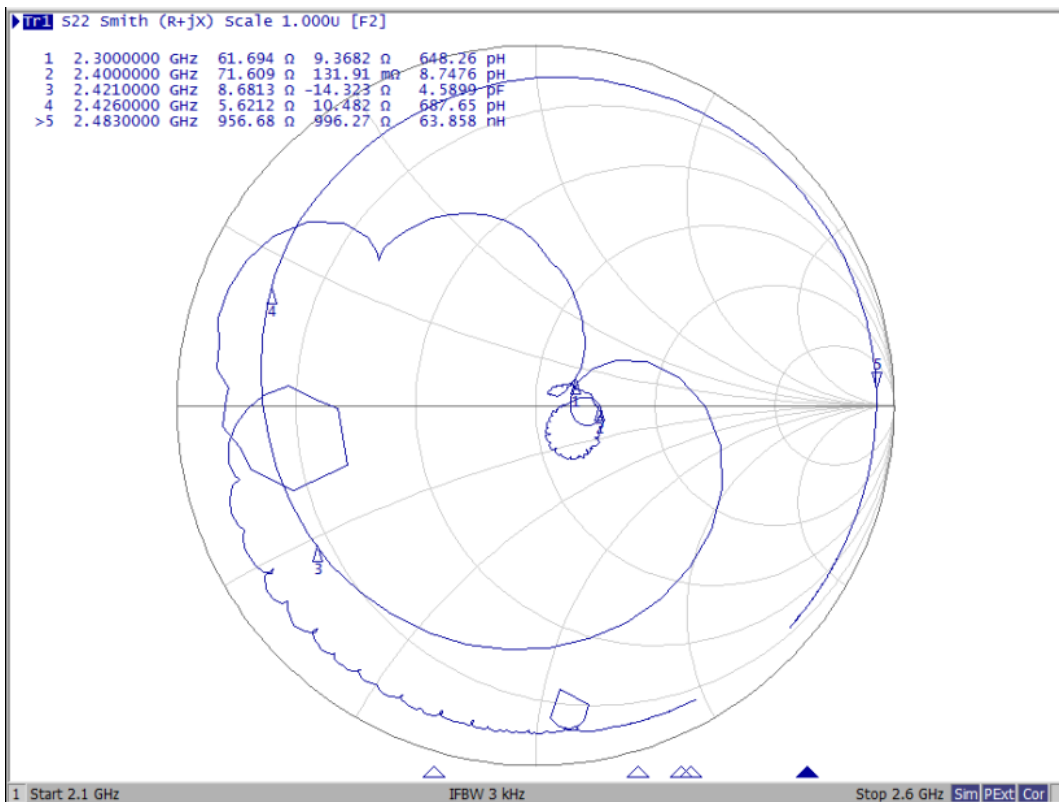
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S11 Smith Chart



S22 Smith Chart

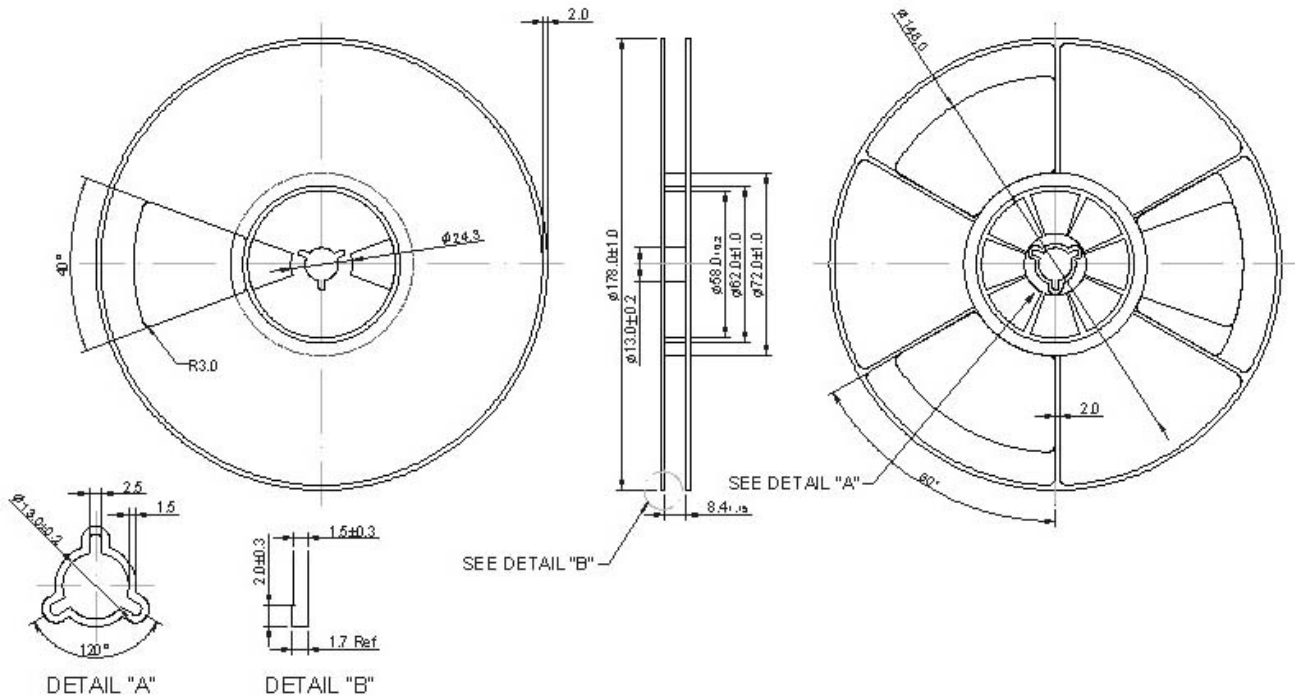


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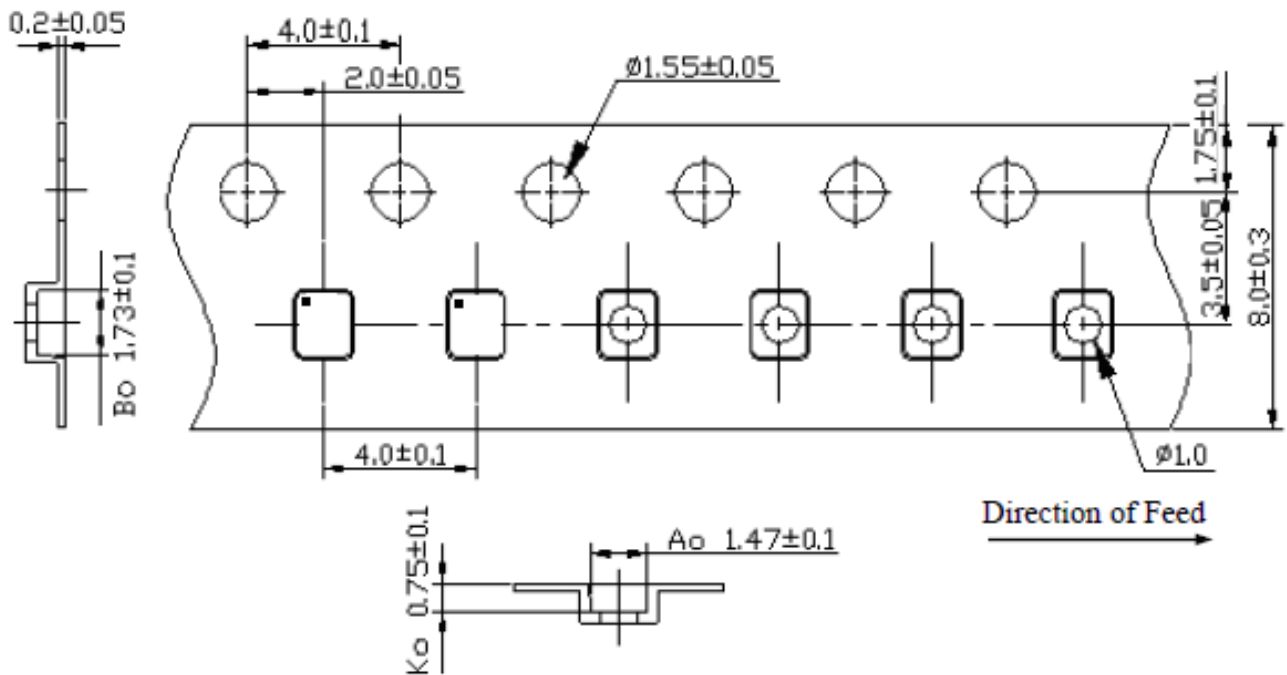
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**G. PACKING:**

1. Reel Dimensions



2. Tape Dimensions





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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 245 ~ 260°C peak (min. 10 sec).
4. Time: 3 times.

