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**SAW Filter 3700.0MHz**

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**Part No: MP08696****Rev No: 1**

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**A. MAXIMUM RATING:****Electrostatic Sensitive Device (ESD)**

## 1. Input Power Level:

@input port (3600 ~ 3800MHz): 21dBm, Continuous wave for 1000h @105°C

@input port (3600 ~ 3800MHz): 22dBm, Continuous wave for 1000h @95°C

@input port (3600 ~ 3800MHz): 24dBm, Continuous wave for 2h @105°C

@input port (3600 ~ 3800MHz): 25dBm, Continuous wave for 2h @95°C

## 2. DC voltage: 0V

## 3. Operating Temperature: -40°C to +105°C

## 4. Storage Temperature: -40°C to +105°C

## 5. Moisture Sensitivity Level: Level 1 (MSL1)

**B. ELECTRICAL CHARACTERISTICS:**

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	3700	-
Insertion Loss (3600 ~ 3800MHz) IL	dB	-	4.7	5.5
Amplitude Ripple (3600 ~ 3800MHz)	dB p-p	-	0.7	3.5
VSWR (3600 ~ 3800MHz)	-	-	1.8	3.0
Group Delay Ripple (3600 ~ 3800MHz)	ns	-	1	15
Group Delay at Fc	ns	-	2	30
Attenuation (Reference level from 0dB)				
10 ~ 2550MHz	dB	20	27	-
2550 ~ 2690MHz	dB	25	27	-
2690 ~ 3000MHz	dB	20	27	-
3000 ~ 3400MHz	dB	10	16	-
4000 ~ 4050MHz	dB	10	42	-
4050 ~ 4400MHz	dB	20	40	-
4400 ~ 5200MHz	dB	5	31	-
5200 ~ 6000MHz	dB	1	29	-
Temperature Coefficient of Frequency	ppm/°C	-	-80	-

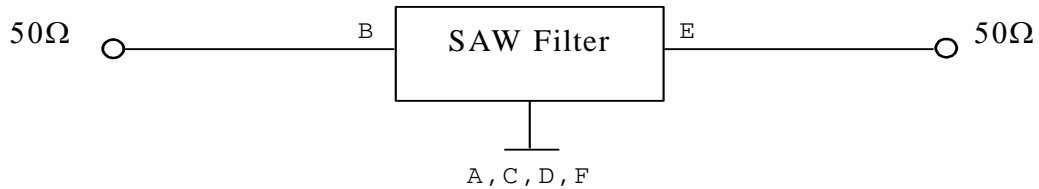
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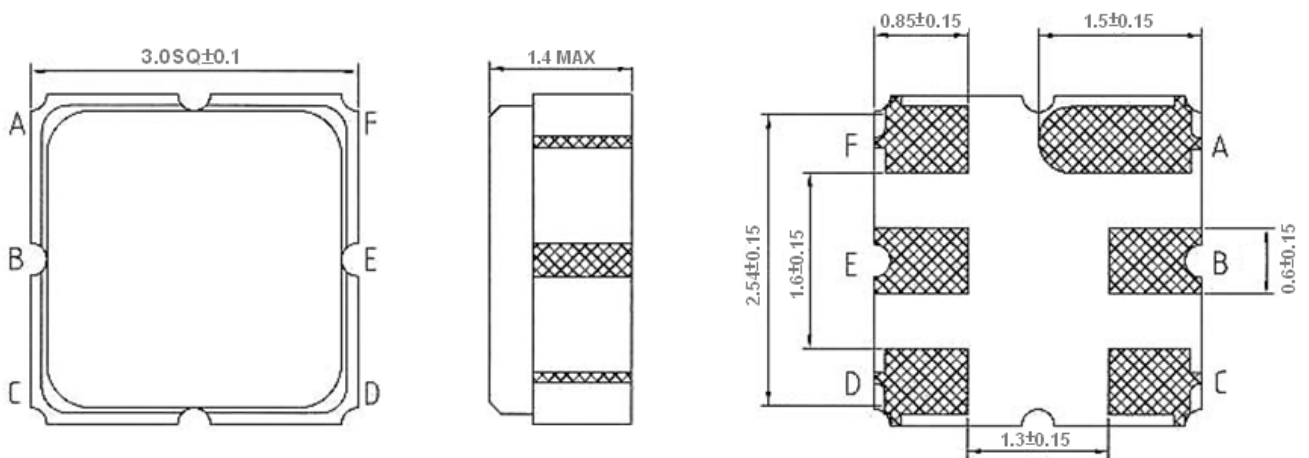
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**C. MEASUREMENT CIRCUIT:**

HP Network analyzer

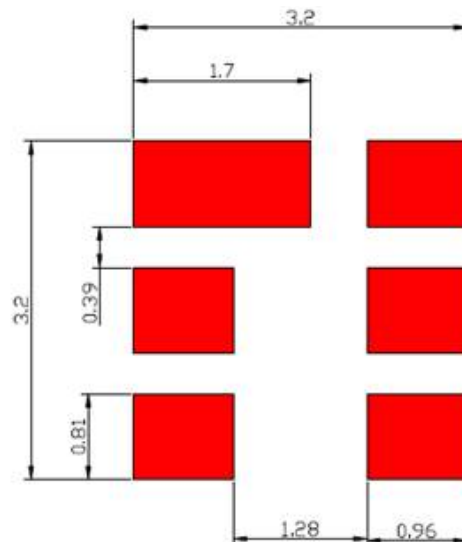


**D. OUTLINE DRAWING:**



B: Input  
 E: Output  
 A, C, D, F: Ground  
 Unit: mm

**E. PCB FOOTPRINT:**

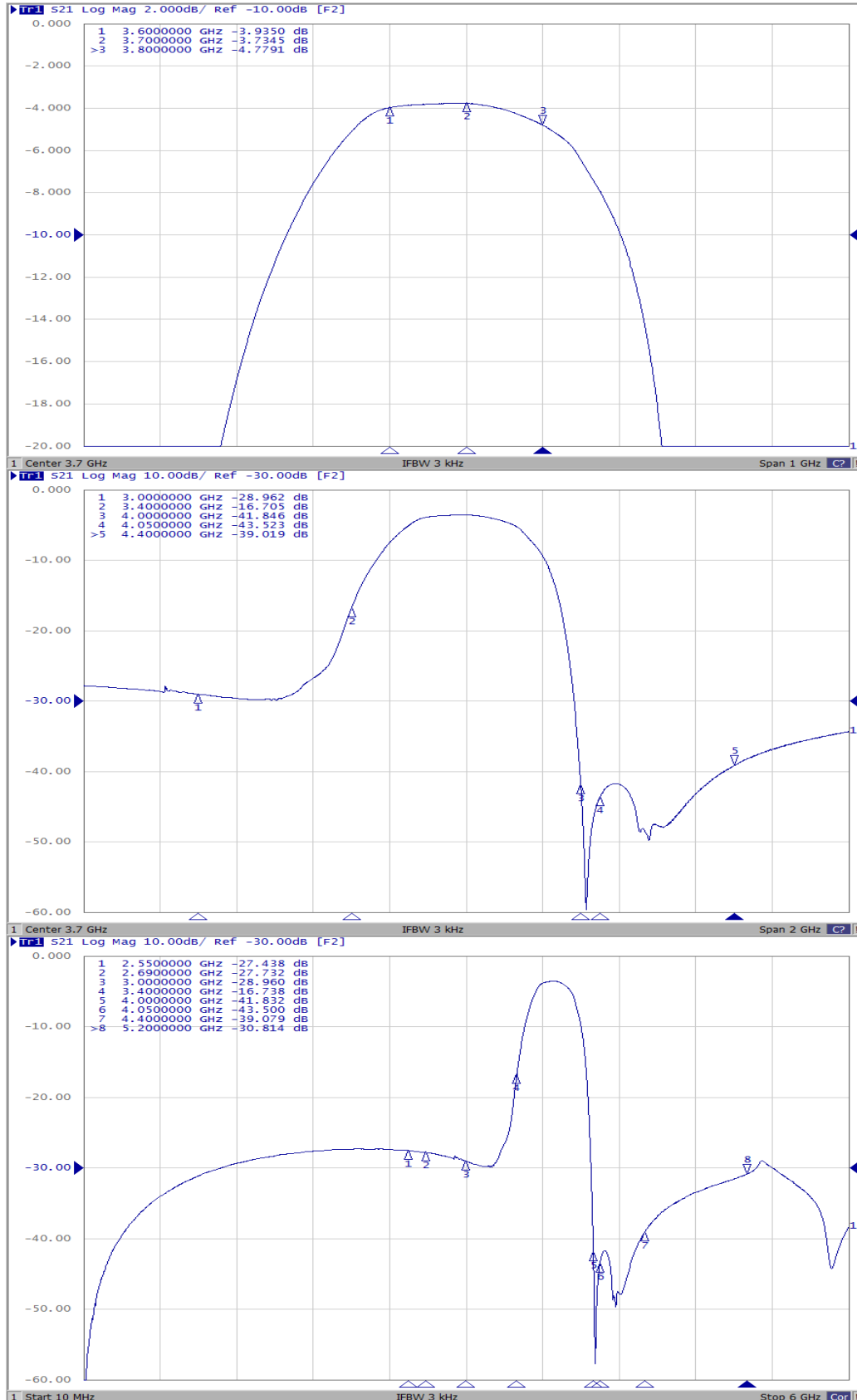


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### F. FREQUENCY CHARACTERISTICS:



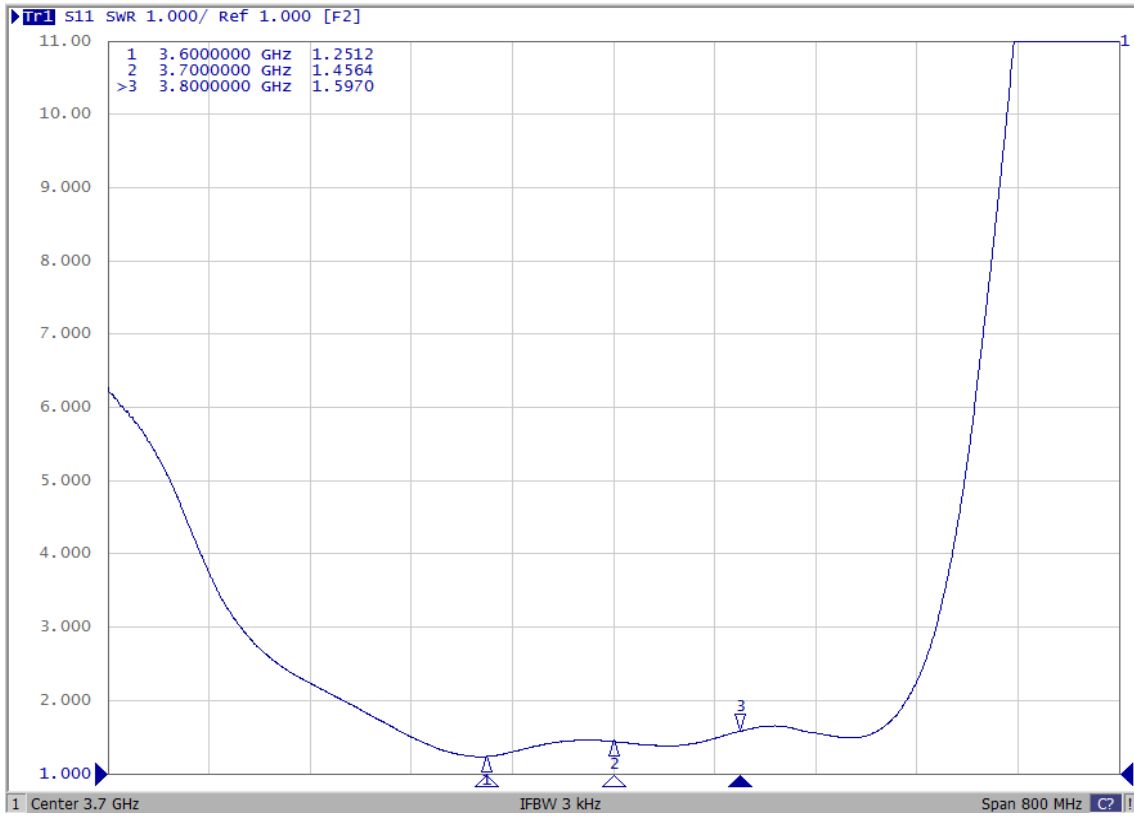
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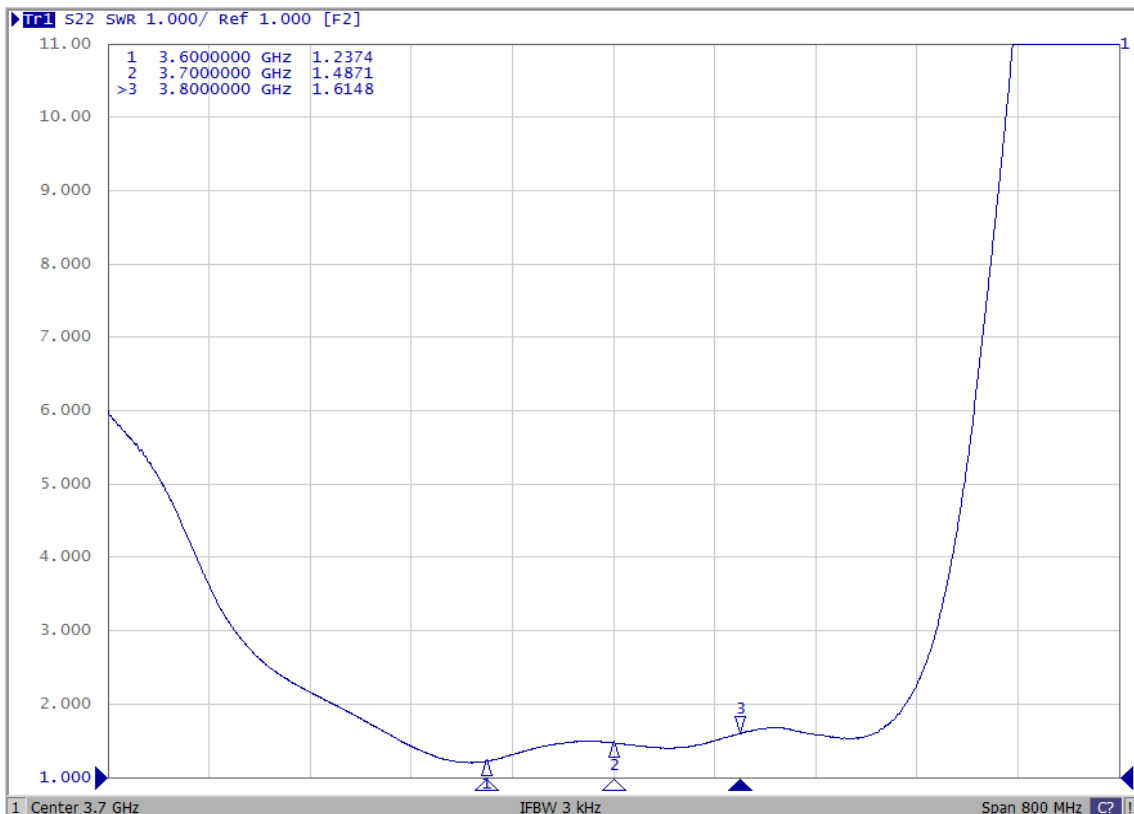
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## Reflection Functions

S11



S22



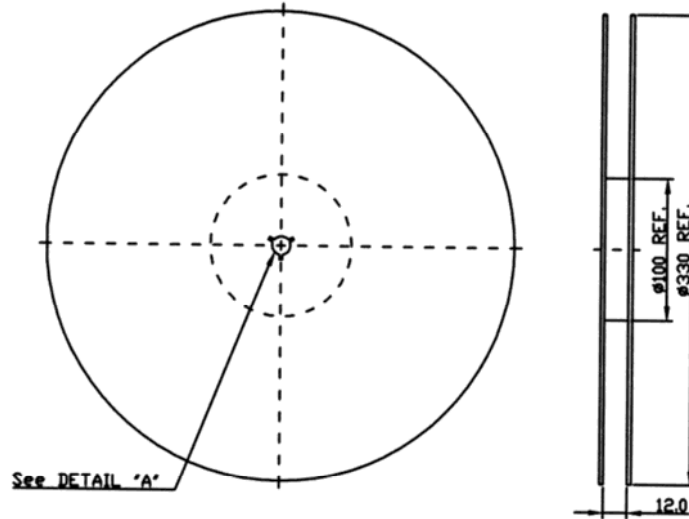
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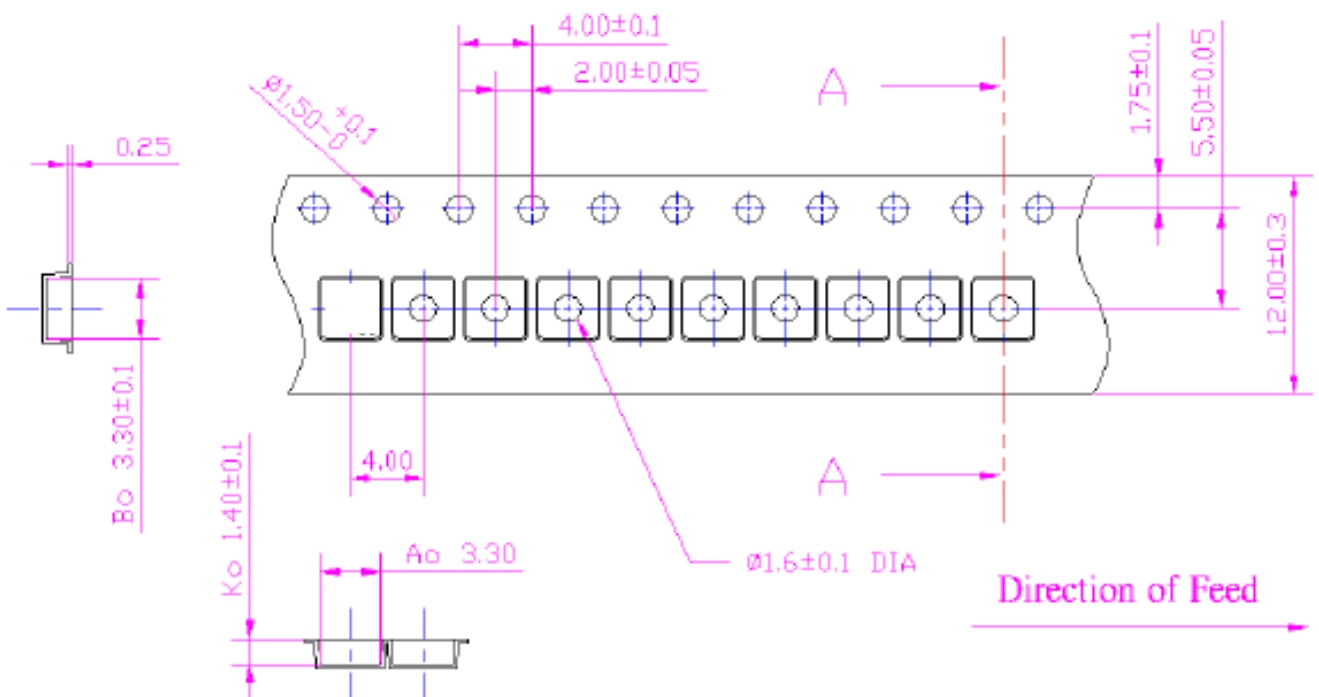
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**G. PACKING:**

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.

