

SAW Filter 725.50MHz
Part No: MP10070

Model: TA2596A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 0V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitive Level: Level 3 (MSL3)

B. ELECTRICAL CHARACTERISTICS:

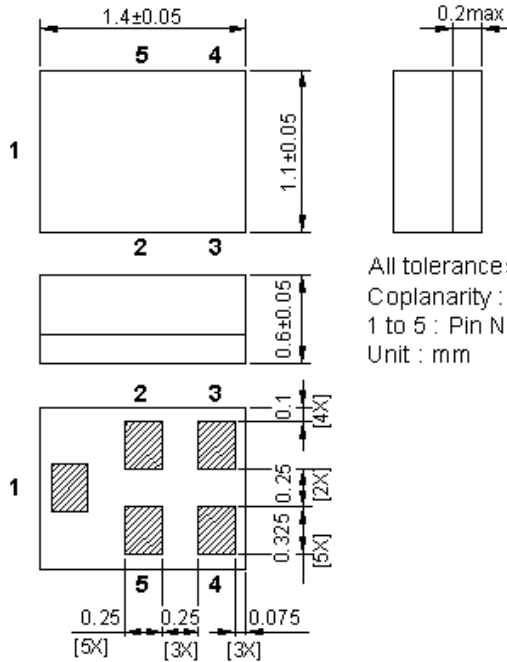
1. Terminating source impedance: $Z_S = 50\Omega$
2. Terminating load impedance: $Z_L = 50\Omega$

Item	Unit	Min.	Typ.	Max.
Center Frequency	MHz	-	725.5	-
Insertion Loss (703 ~ 748 MHz)	dB	-	2.5	3.0
Amplitude ripple (703 ~ 748 MHz)	dB	-	1.4	2.5
VSWR (703 ~ 748 MHz)	-	-	1.8	2.2
Attenuation				
0010 ~ 0650MHz	dB	28	32	-
0758 ~ 0763MHz	dB	20	26	-
0763 ~ 0803MHz	dB	20	24	-
0803 ~ 1500MHz	dB	28	33	-
1500 ~ 3000MHz	dB	20	24	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

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C. OUTLINE DRAWING:

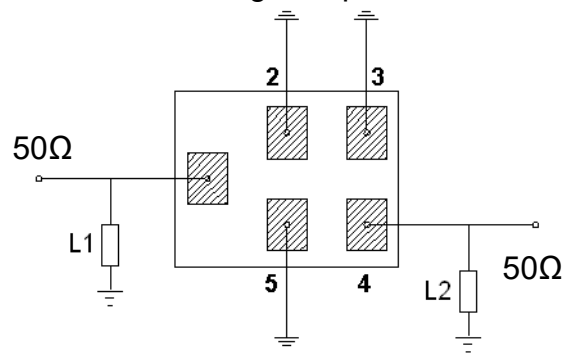


All tolerances are ± 0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.
 1 to 5 : Pin No.
 Unit : mm

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

D. MEASUREMENT CIRCUIT:

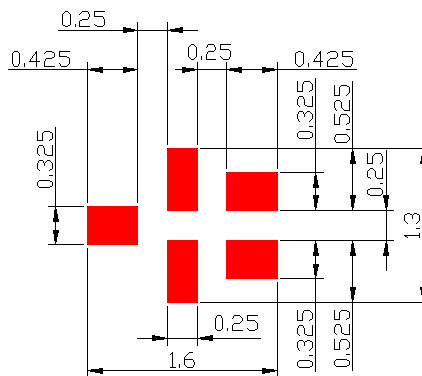
By Network analyzer simulation matching with port extension



1: Unbalance Port
 4: Unbalance Port
 Others: Ground

$L1 = L2 = 10 \text{ nH}$

E. PCB FOOTPRINT:



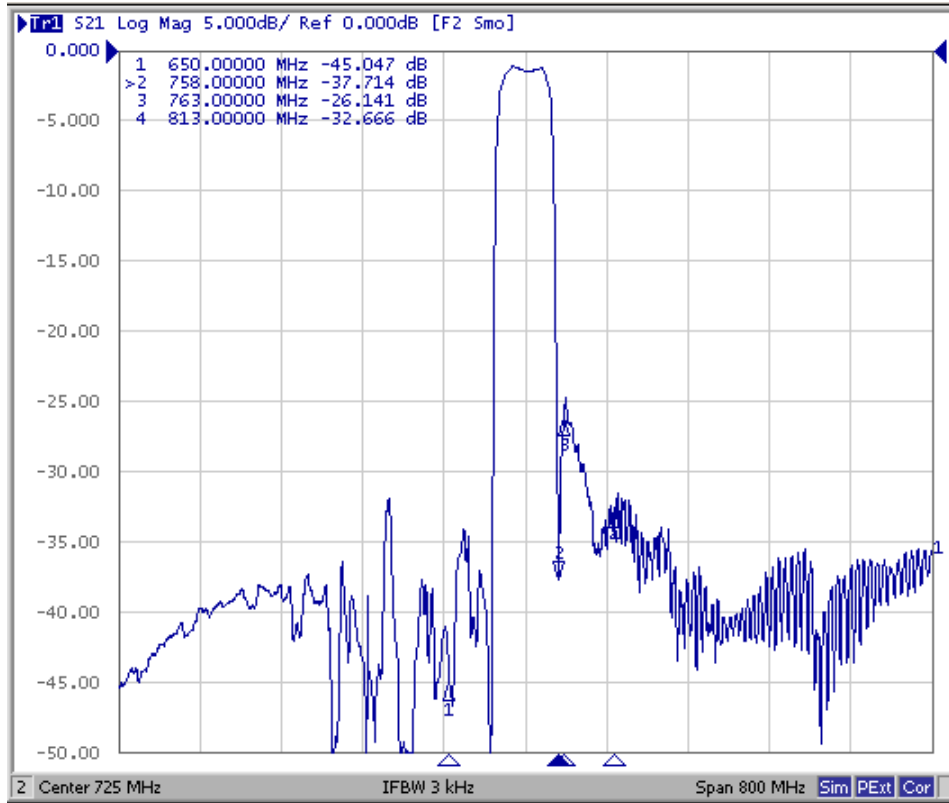
■ : Land Pattern
 Unit : mm

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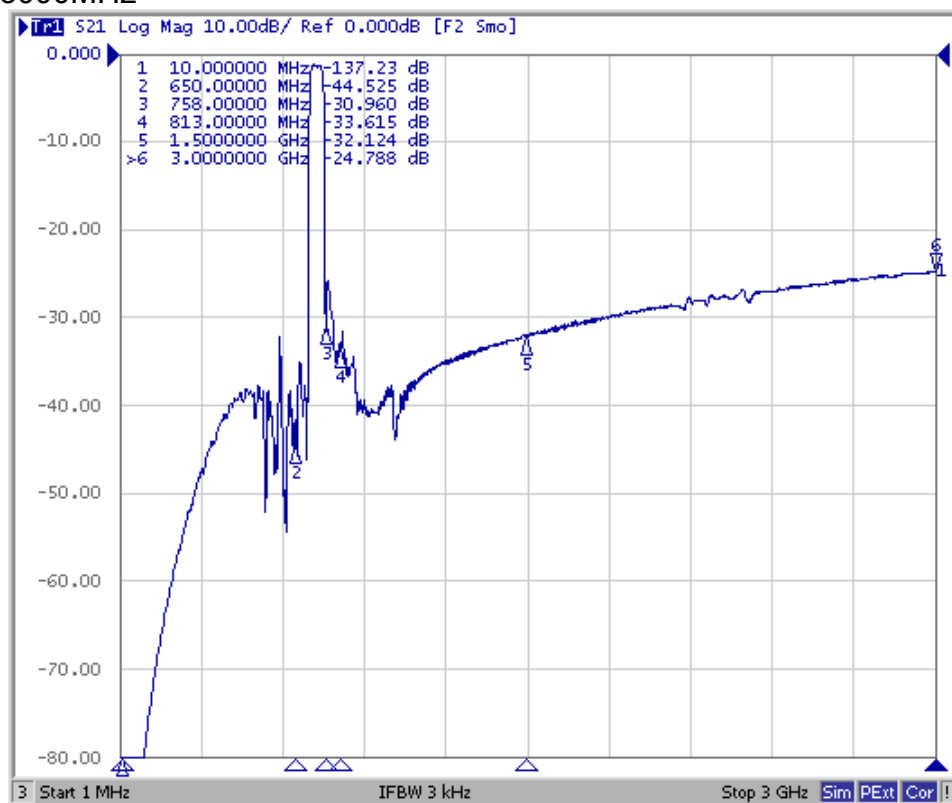
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F. FREQUENCY CHARACTERISTICS:

1. Span 400MHz



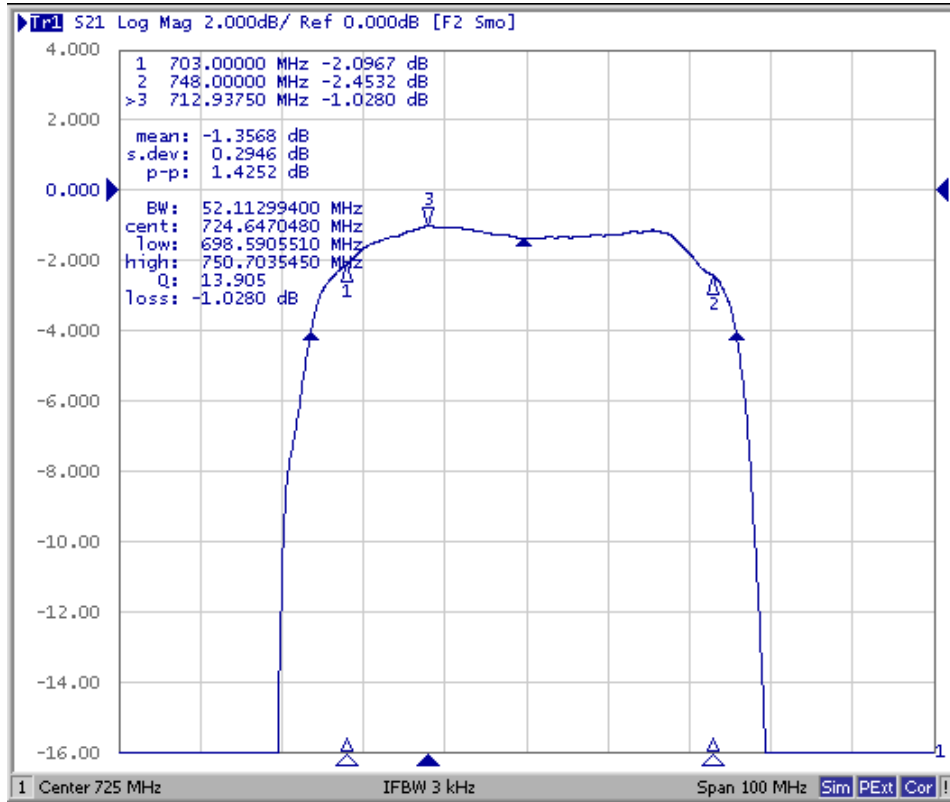
2. Span 3000MHz



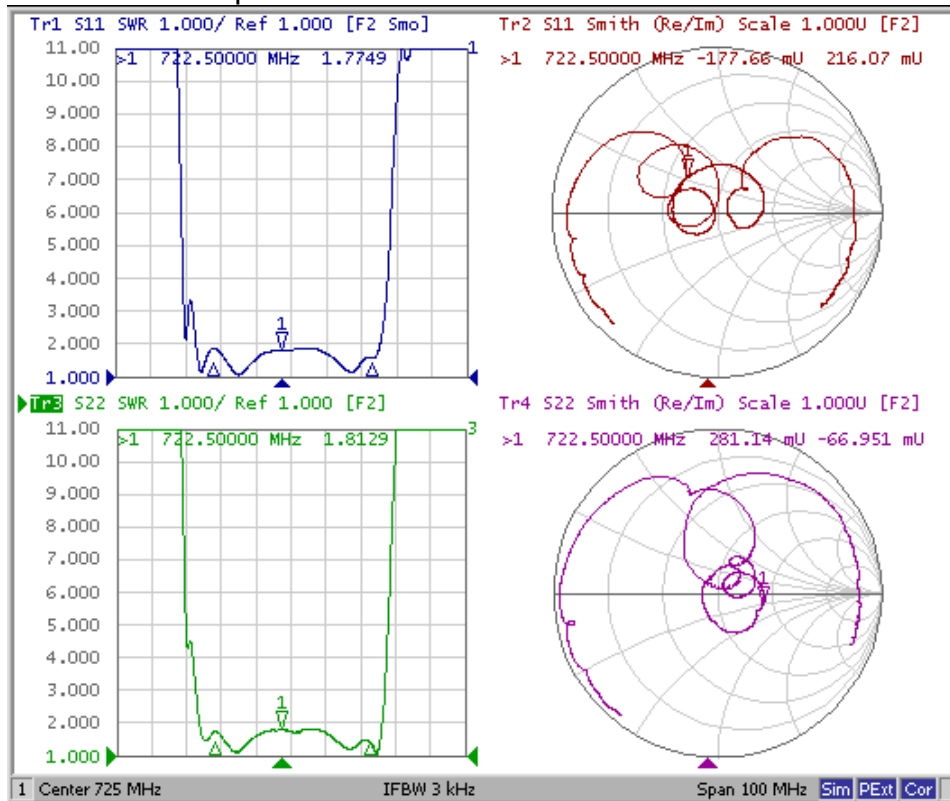
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3. Span 100MHz



4. Reflection Functions Span 60 MHz

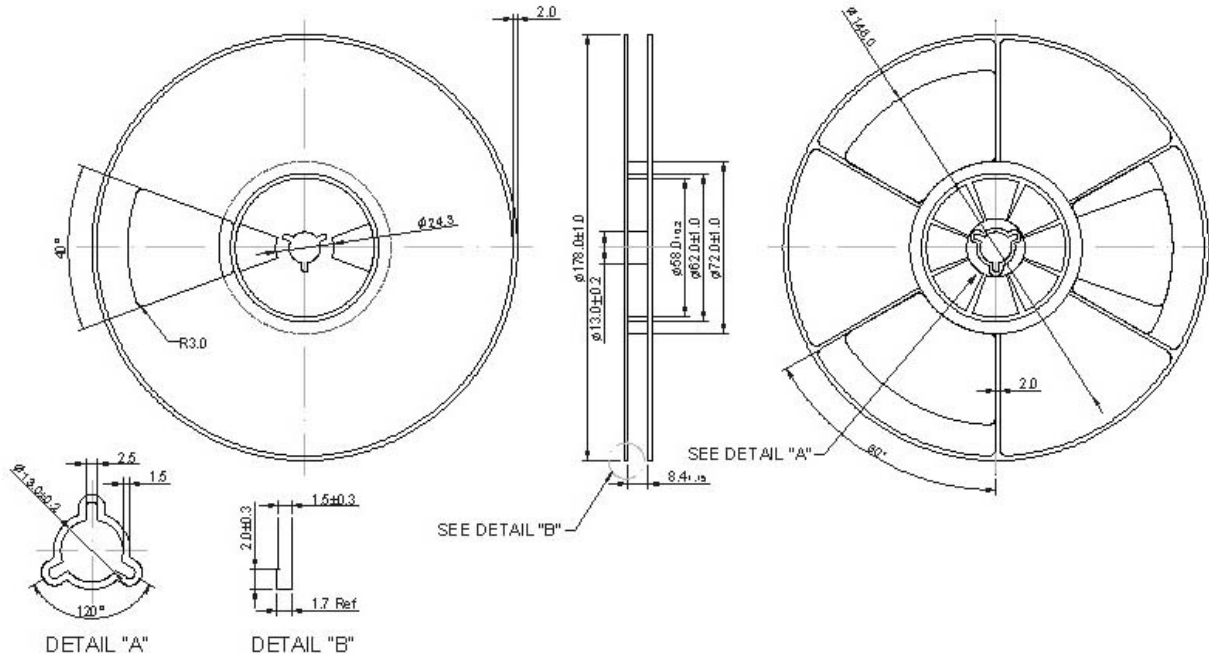


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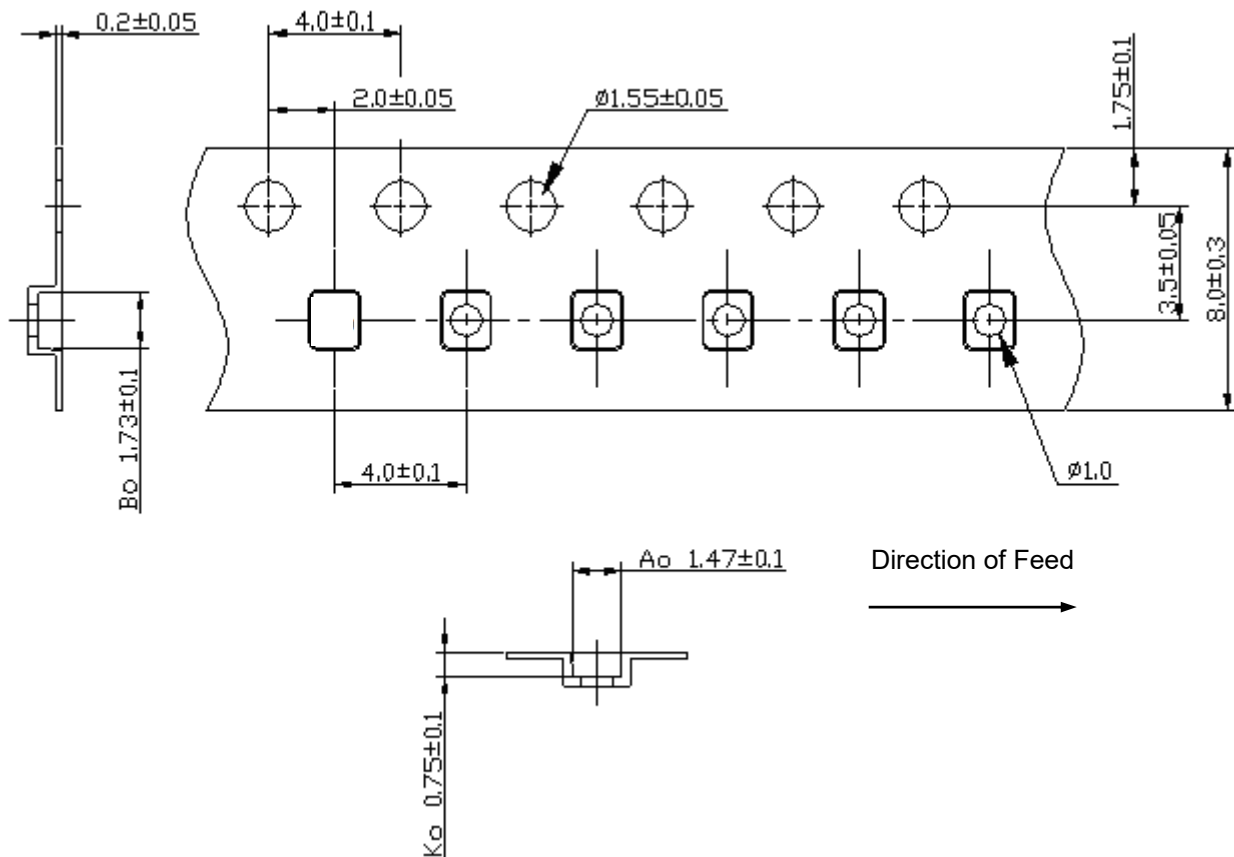
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G. PACKING:

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 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.

