

**SAW Filter 150.0MHz**  
**Part No: MP04686**

**Model: TB1004A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Operating Temperature: -40°C ~ +85°C
2. Storage Temperature: -40°C ~ +85°C
3. Input power: 10dBm

**B. CHARACTERISTICS:**

Ambient Temperature: 25°C

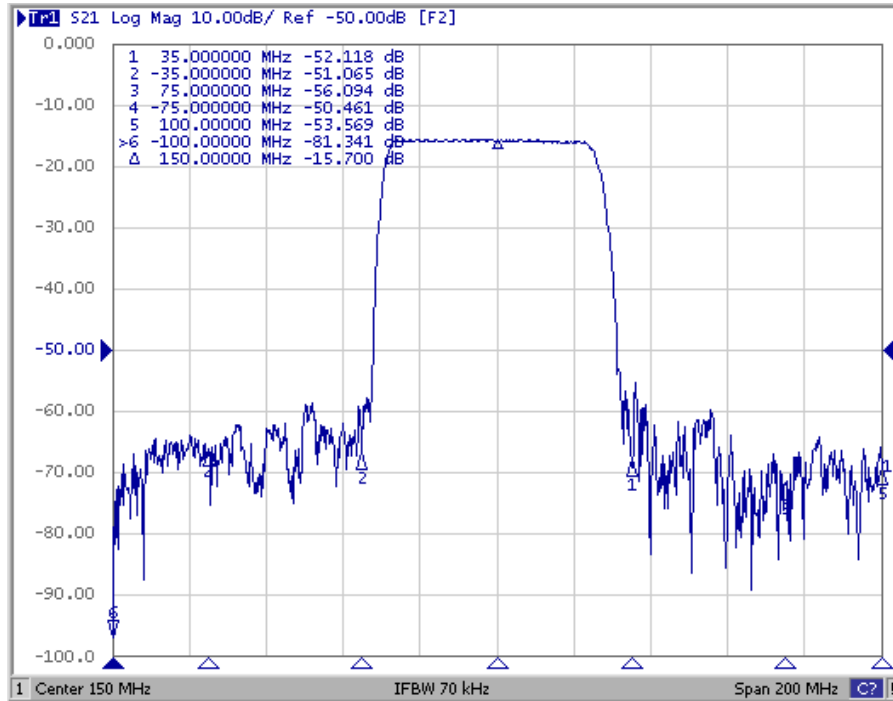
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency Fc MHz	-	150.0	-	-
Minimum Insertion loss IL dB	-	15.5	18	-
1dB BW MHz	50	52.5	-	-
Return Loss		3.7		
VSWR		4.7		
Phase linearity deg		4.2	6	
Rejection at Fc ± 35MHz	40	44		
Rejection at Fc ± 75MHz	45	52		
Rejection at Fc ± 100MHz	45	53		
Rejection from DC ~ 50MHz	50	53		
Rejection from 250 ~ 590MHz	35	38		
Substrate Material	YZ-LiNbO3			-
Temp Coefficient ppm/K	-	-94	-	-
Matching: 1.The input of the filter will be matched to 50 ohm 2.The output of the filter will be matched to 50 ohm				

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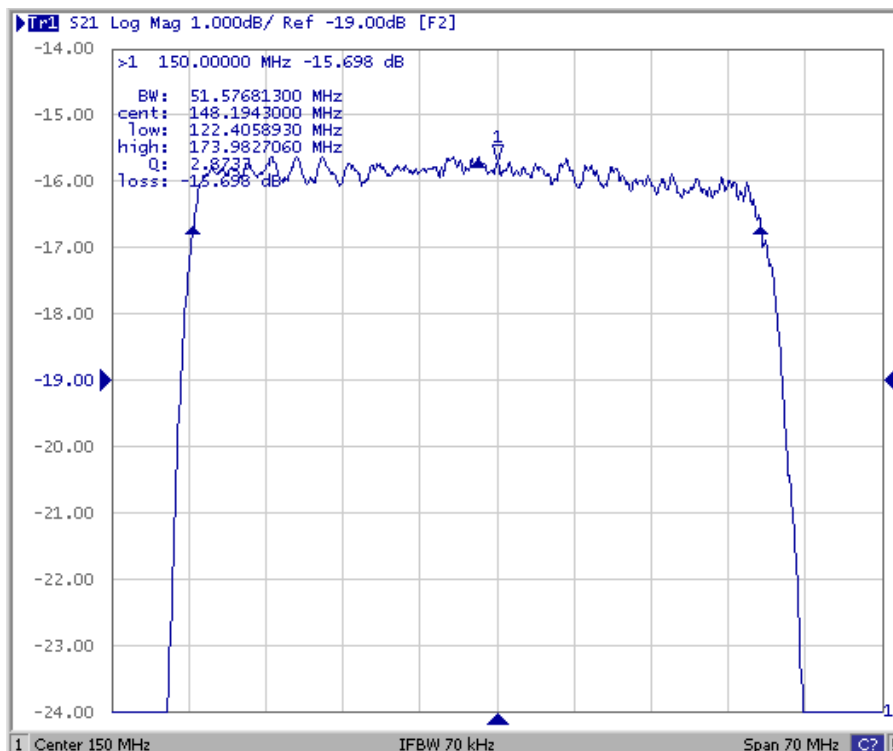
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**C. FREQUENCY CHARACTERISTICS:**

1. S21 Response: (span: 200MHz)



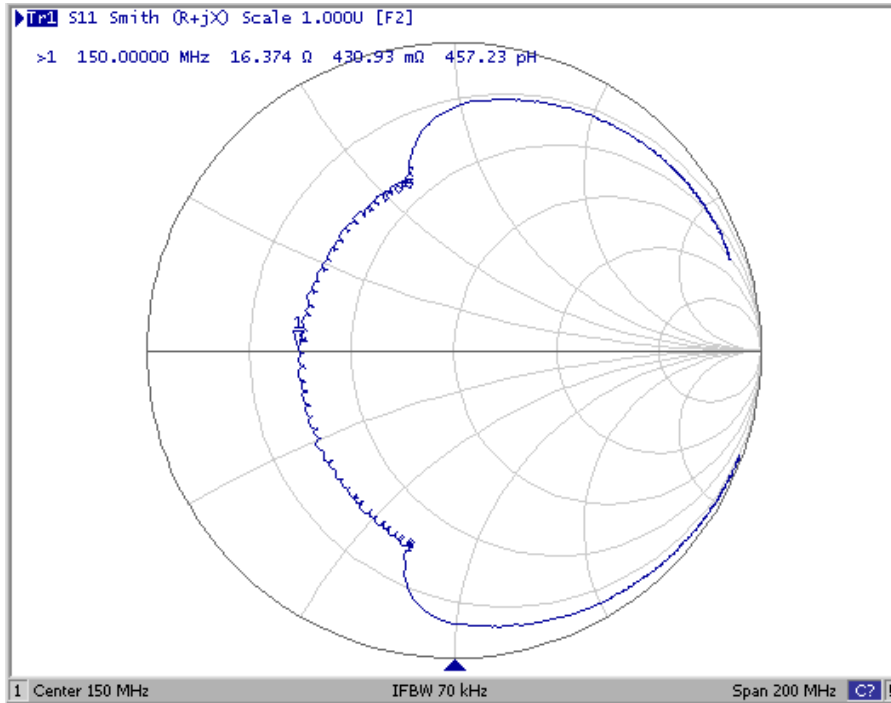
2. Pass-band Response: (span: 70MHz)



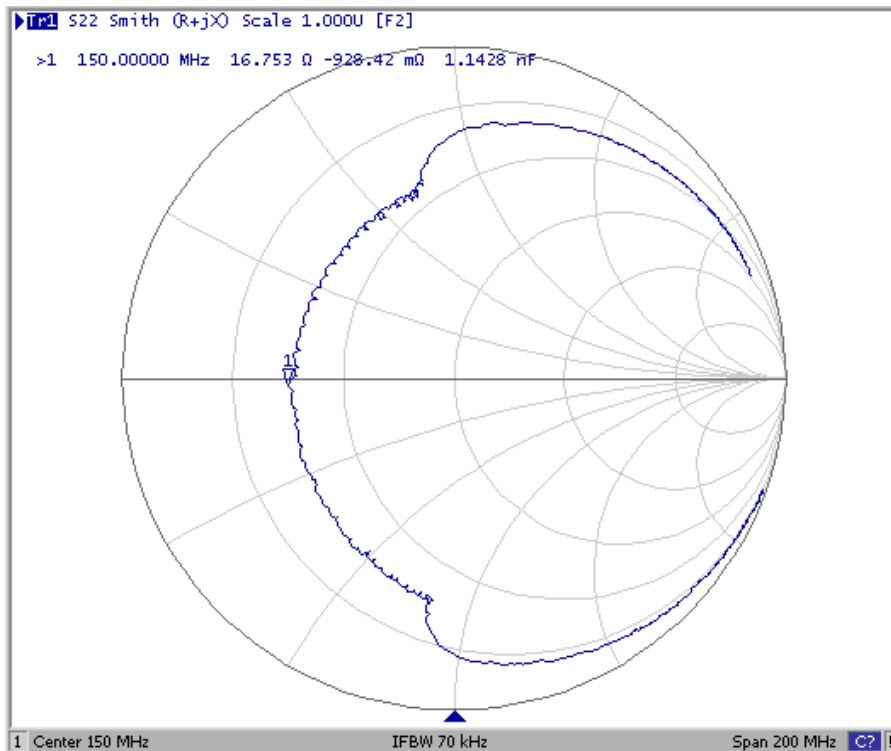
**SAW Filter 150.0MHz**  
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3. S11 Smith Chart: (span: 200MHz)



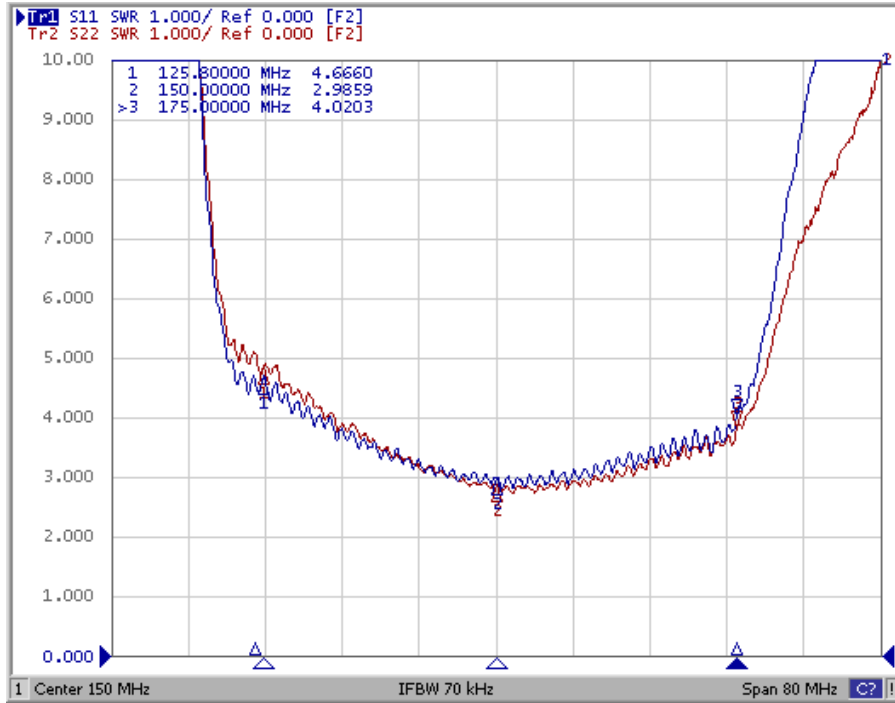
4. S22 Smith Chart (span: 200MHz)



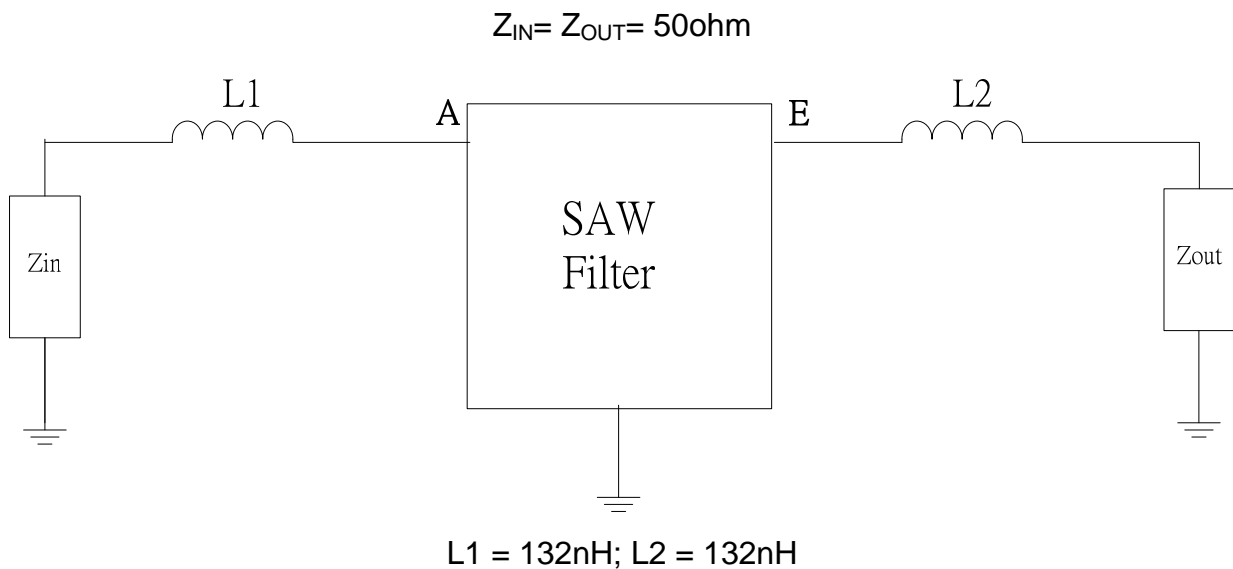
**SAW Filter 150.0MHz**  
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5. S11 & S22 Smith Chart (span: 80MHz)



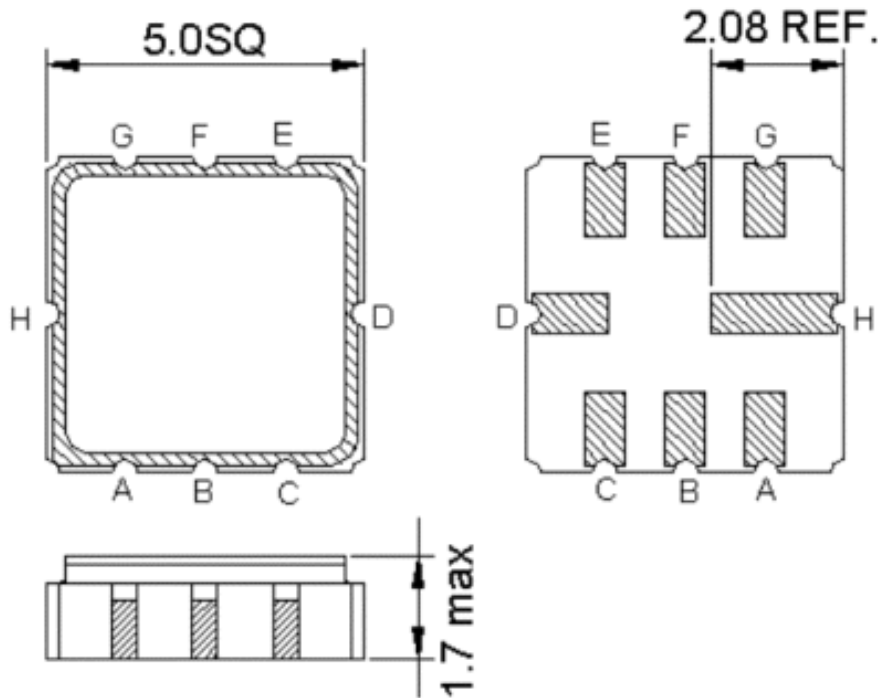
**D. MEASUREMENT CIRCUIT:**



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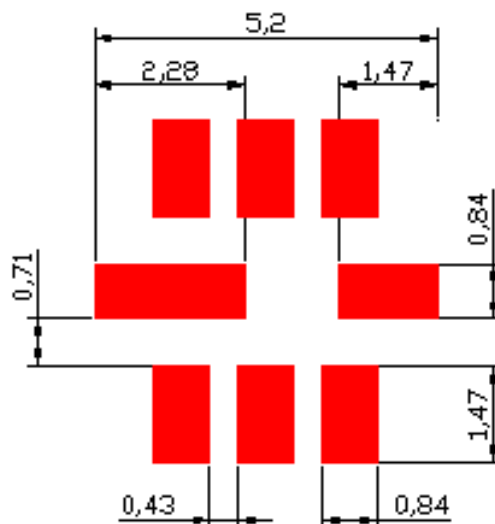
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**E. OUTLINE DRAWING:**



C: RF input  
 G: RF output  
 H, D: Case Ground  
 Pin A, B, E, F: Ground  
 Unit: mm

**F. PCB FOOTPRINT:**

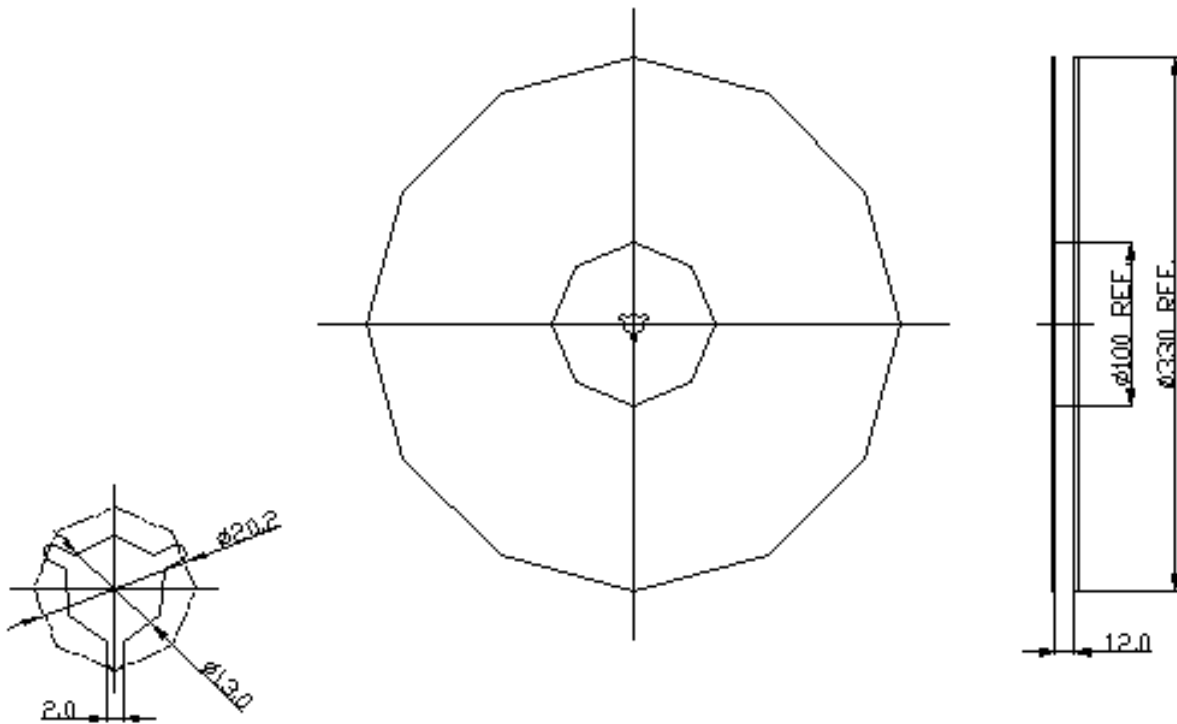


**SAW Filter 150.0MHz**  
**Part No: MP04686**

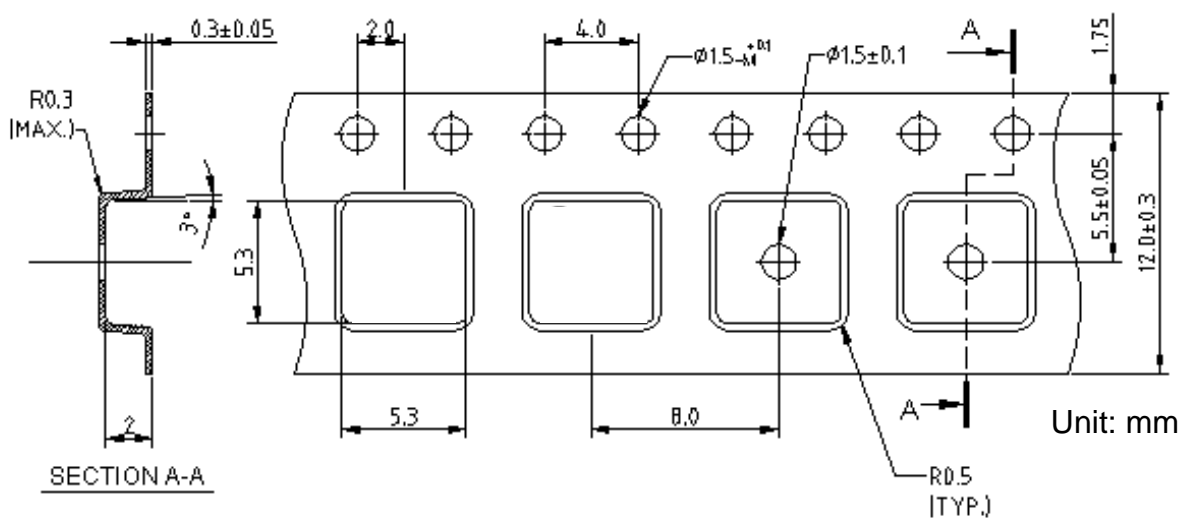
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**G. PACKING:**

1. Reel Dimension



2. Tape Dimension



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**H. RECOMMENDED REFLOW PROFILE:**

