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Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

SAW Filter 70.0MHz — Model: TB0474A
Part No: MP01881 — Rev No: 2

A. MAXIMUM RATINGS:

1. Operating Temperature: -30°C to 60°C
2. Storage Temperature: -40°C to 85°C
3. Input Power: 10dBm

B. ELECTRICAL CHARACTERISTICS:

Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	70	-
Insertion Loss IL	dB	-	18.4	20
Upper -1dB frequency	MHz	87.5	87.7	-
Lower -1dB frequency	MHz	-	52.2	52.5
Upper -45dB frequency	MHz	-	92.7	94
Lower -45dB frequency	MHz	47	49.5	-
Ultimate rejection 1MHz ~ 45MHz 95MHz ~ 120MHz	 dB dB	 40 35	 47 41	
Passband Ripple 52.5 - 87.5MHz	dB	-	0.85	1.2
Absolute Group Time Delay	nsec	-	960	1000
Temperature Coefficient	ppm/°C	-	-72	-
Source Impedance (Balanced)	Ω	-	50	-
Load Impedance (Balanced)	Ω	-	50	-

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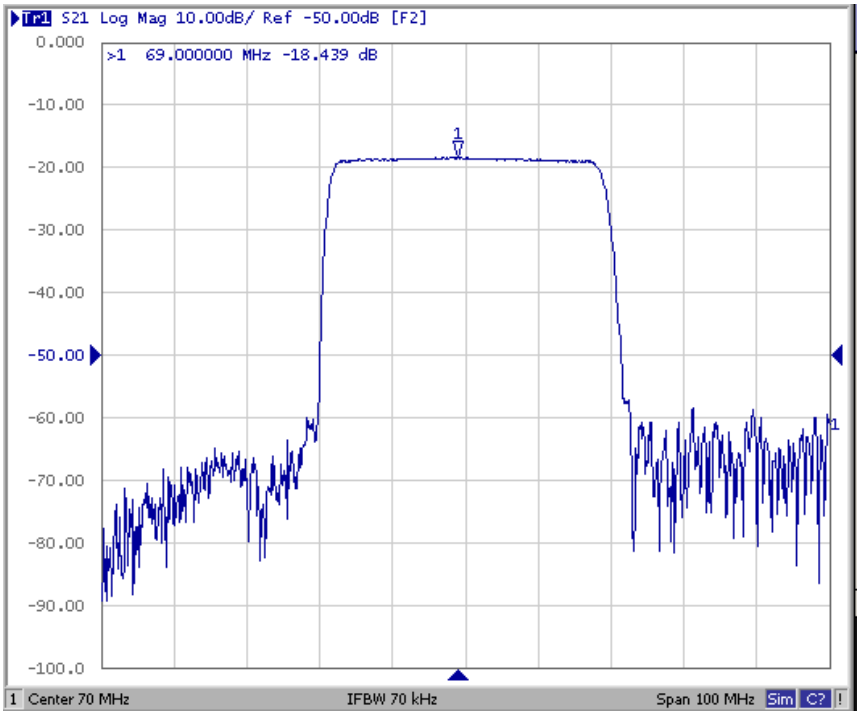
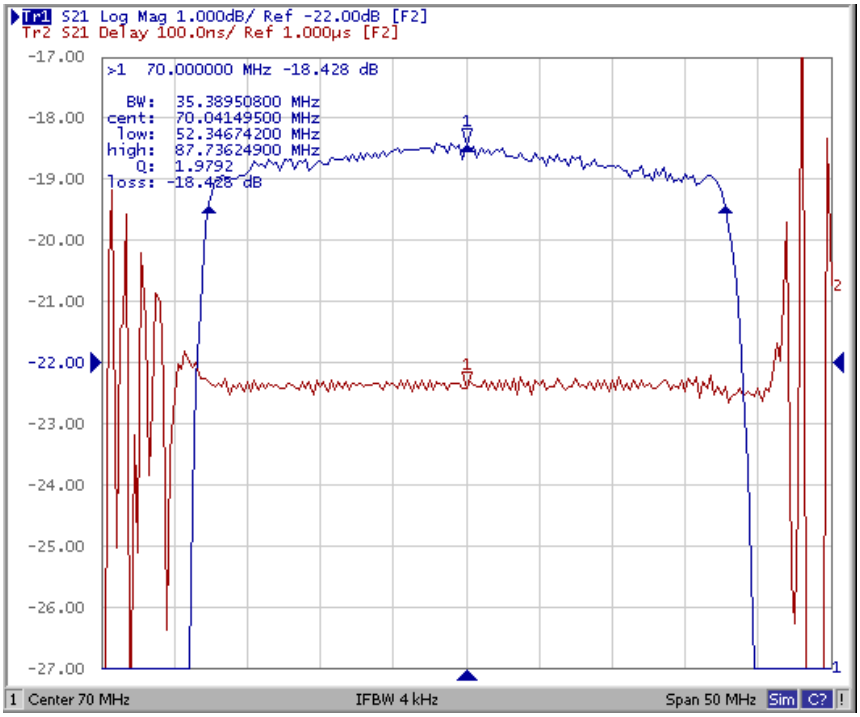
C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 100MHz)



2. Pass band Response and Group Time Delay response: (span 50MHz)



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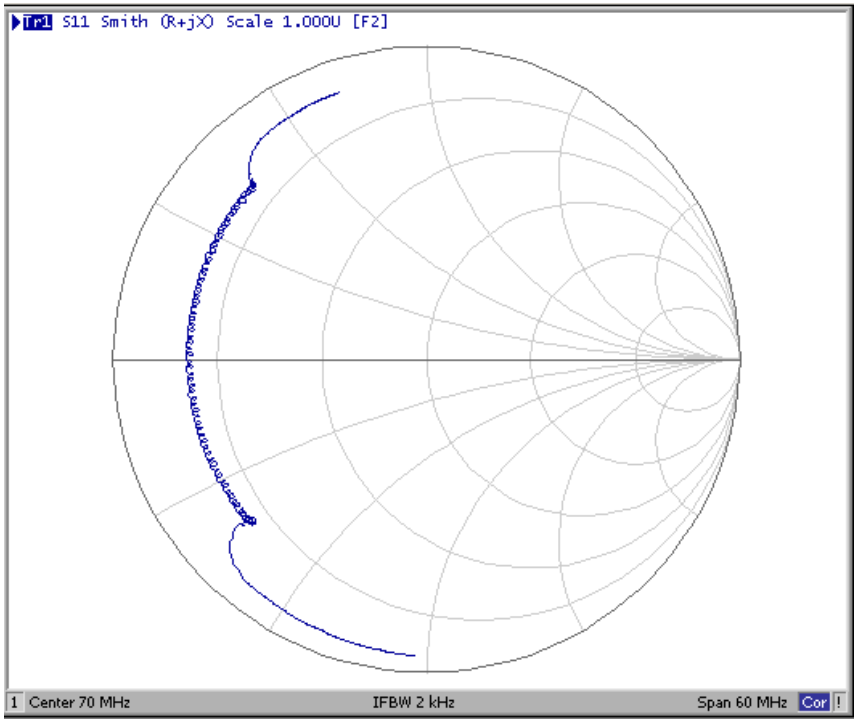
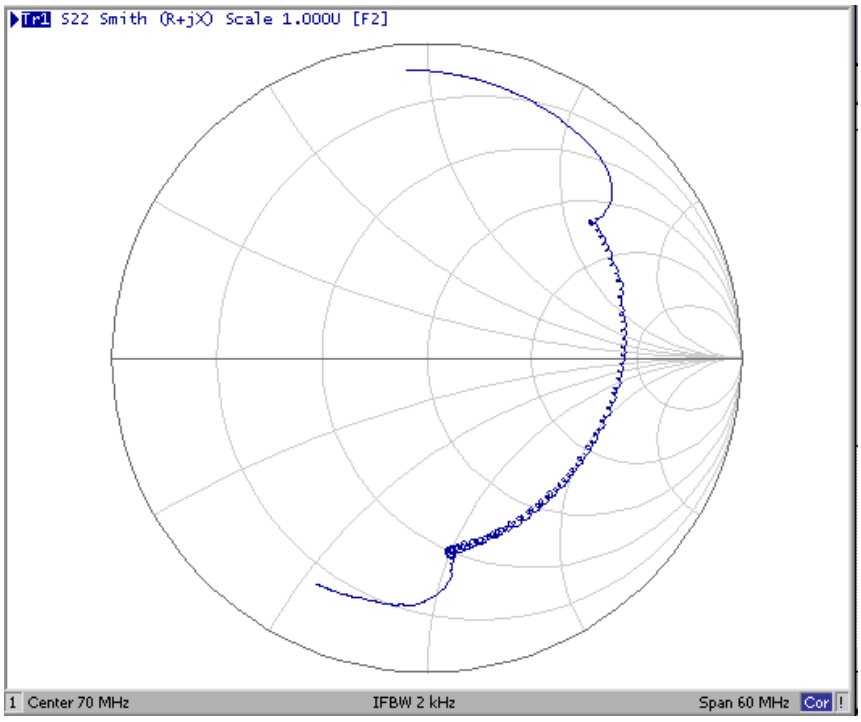
3. S11 Smith-Chart: (span 60MHz)



4. S22 Smith-Chart: (span 60MHz)



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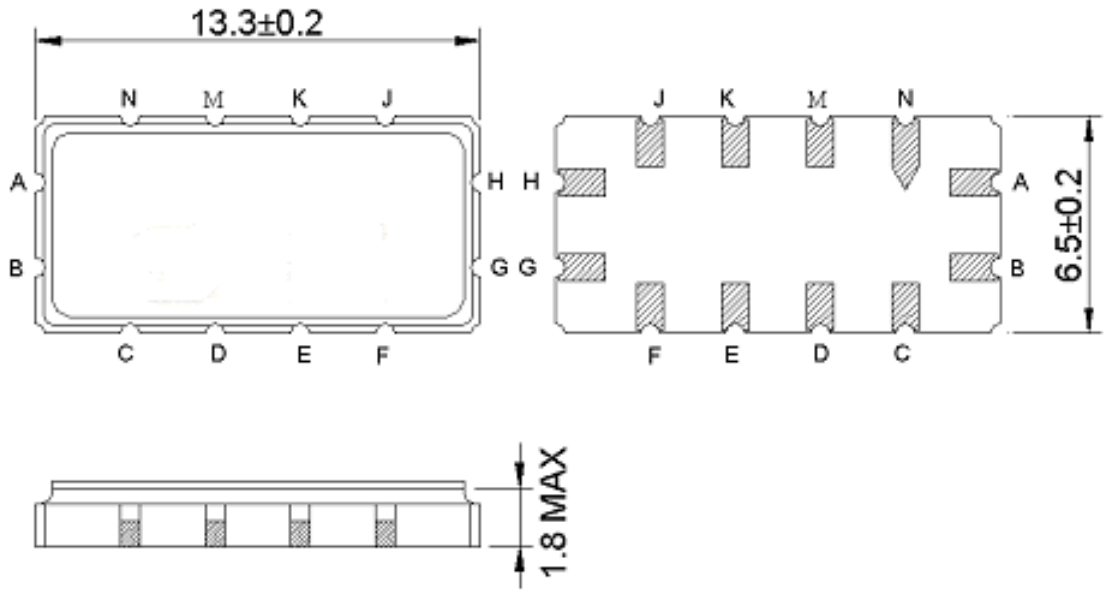
D. OUTLINE DRAWING:



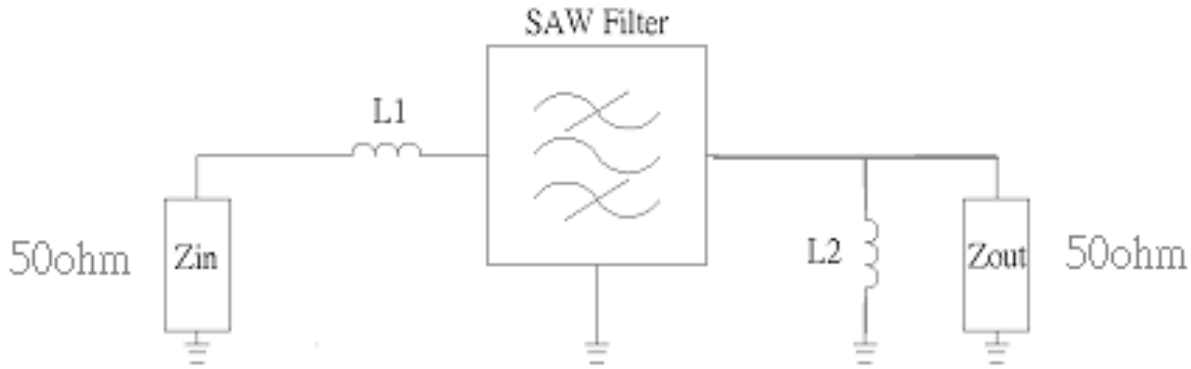
A, B: RF input

H, G: RF output

C, D, E, F, J, K, N, M: To be Ground

Unit: mm

E. MATCHING CIRCUIT:



L1 = 90nH; L2 = 110nH

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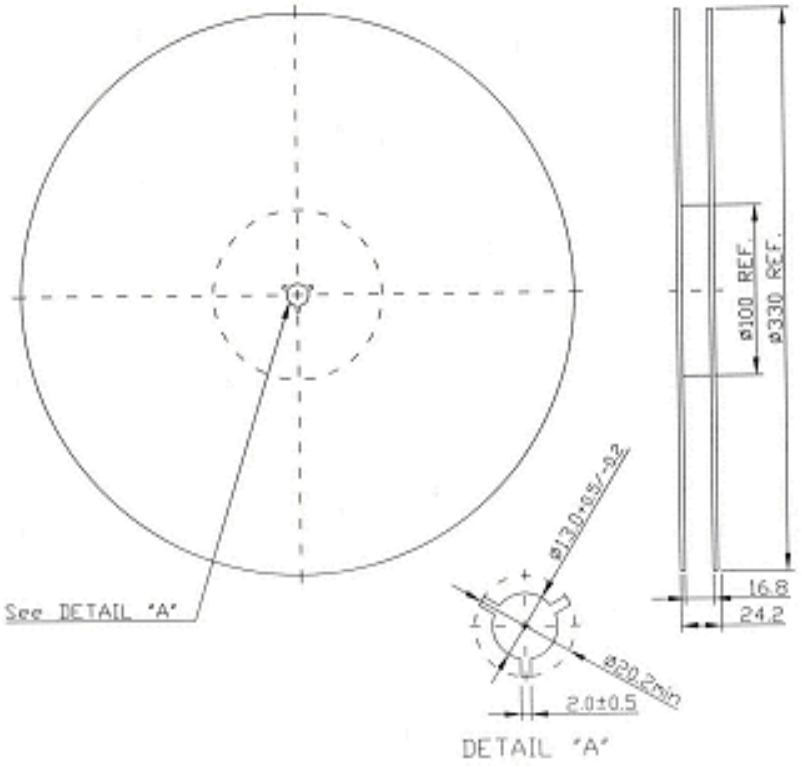
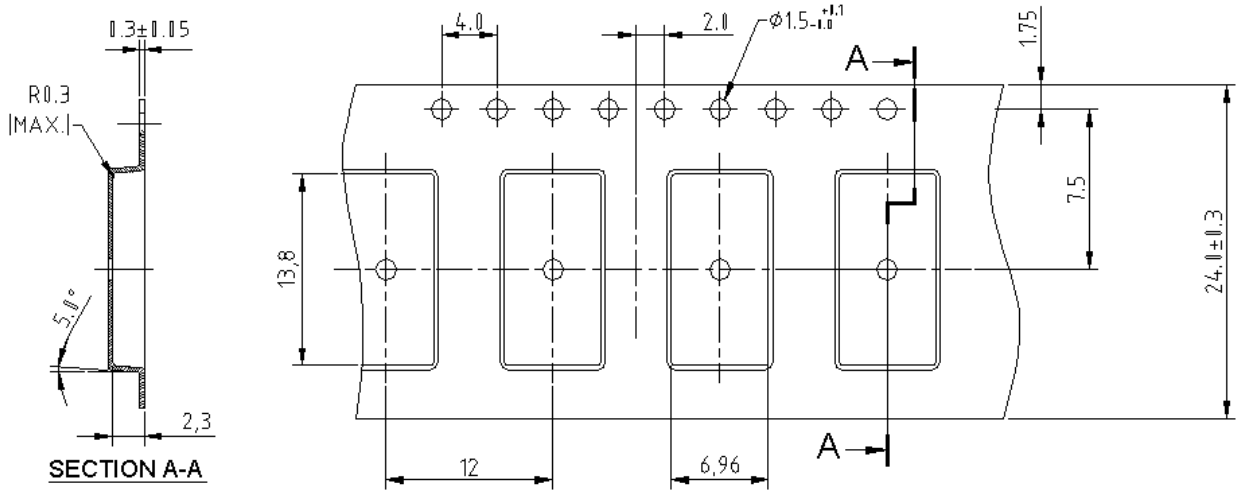
F. PACKING:

1. Reel Dimension



2. Tape Dimension



Direction of feed

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G. RECOMMENDED REFLOW PROFILE: