

374MHz IF SAW Filter

Model: TB374EA

Part No: MA03771

REV. NO.: 4

A. MAXIMUM RATING:

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

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, Fc	MHz	-	374	-	1
Insertion Loss, IL	dB	-	8.9	10	1
Passband width, BW3	MHz	17	23	-	1
Amplitude Ripple in Fc 7MHz, AR	dB	-	0.8	1	1
Group delay ripple in Fc 7MHz, GDT	nS	-	67	100	1
Triple transit suppression	dB	30	38	-	1
Attenuation:(Reference level from Min IL)					
Fc -100 to -33MHz	dB	45	49	-	
Fc -33to -22MHz	dB	40	51	-	
Fc -22 to -16.5MHz	dB	30	45	-	
Fc +16.5 to +22MHz	dB	30	39	-	
Fc +22 to +43 MHz	dB	35	39		
Fc +43 to +100MHz	dB	40	45	-	

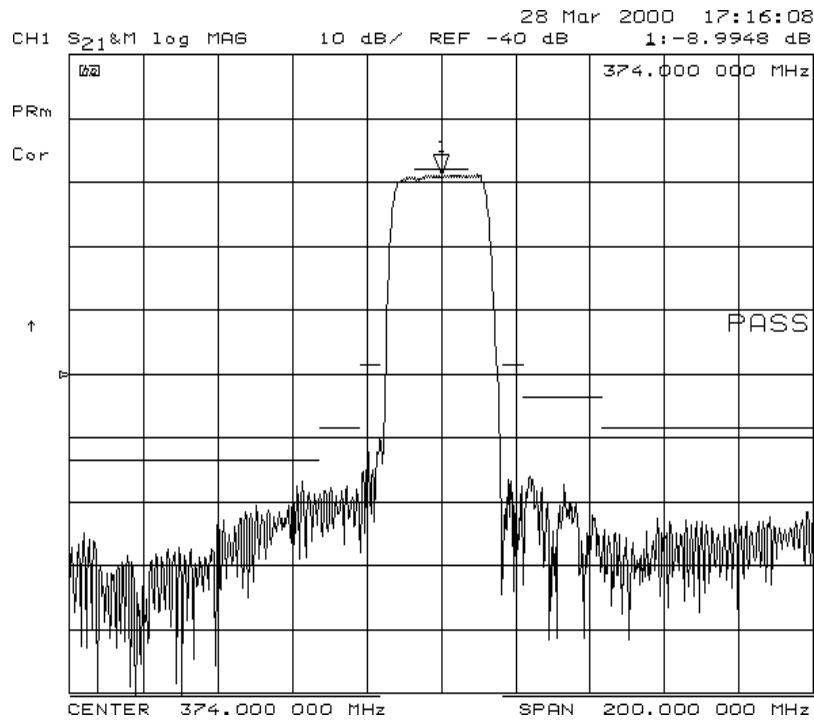
Note1. The standard definitions is in JIS C 6703

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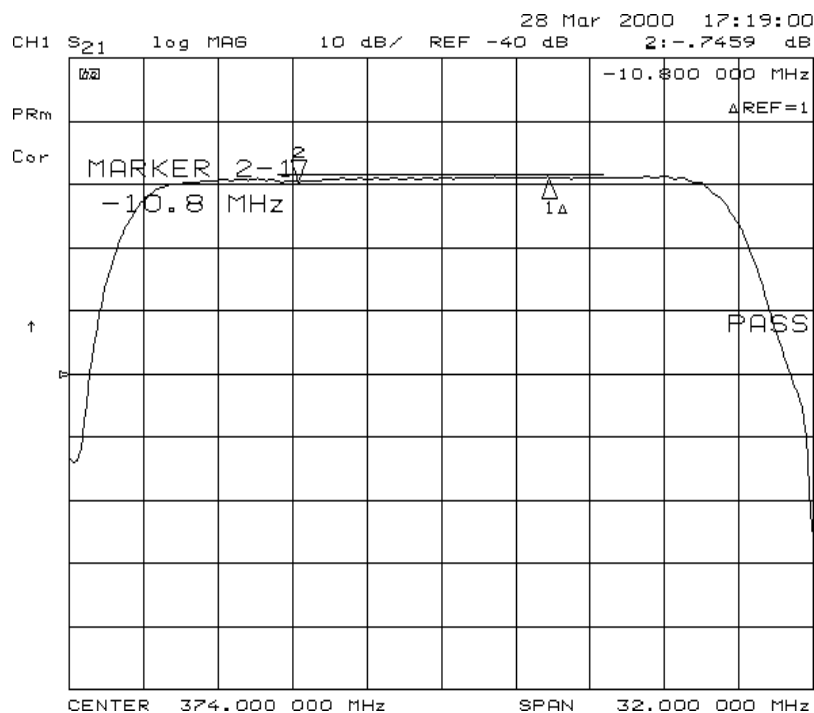
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C. FREQUENCY CHARACTERISTICS:

(1) Wide-band of S21:



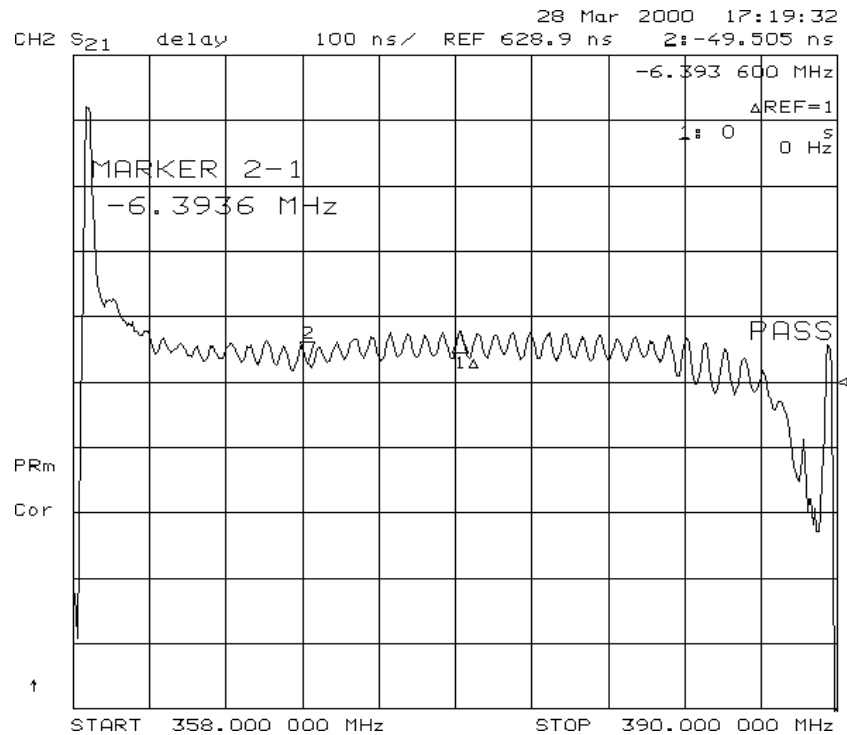
(2) Amplitude ripple:



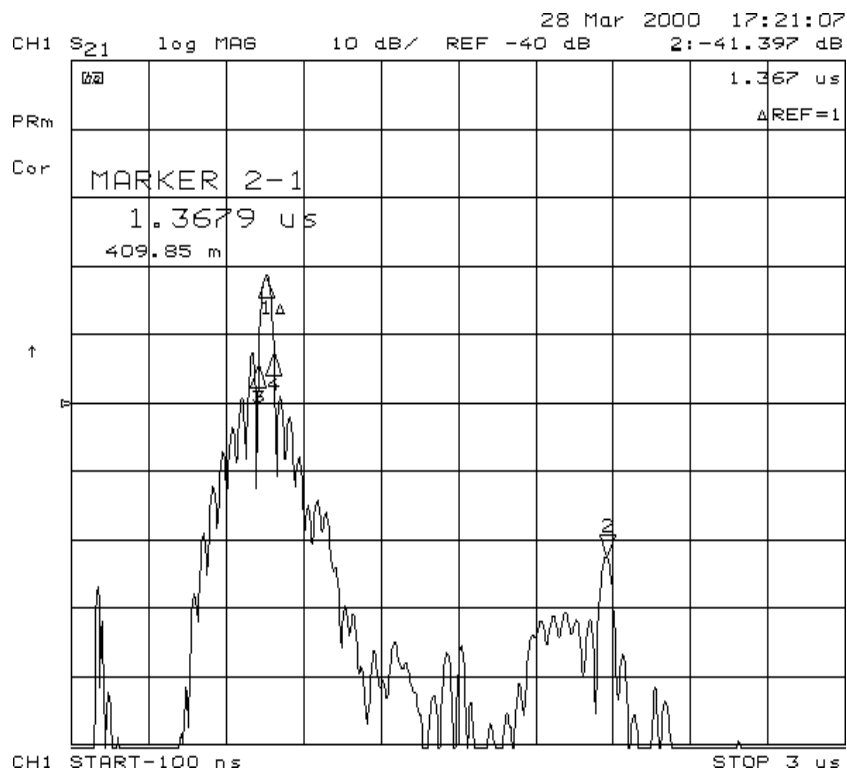
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(3) Group delay:



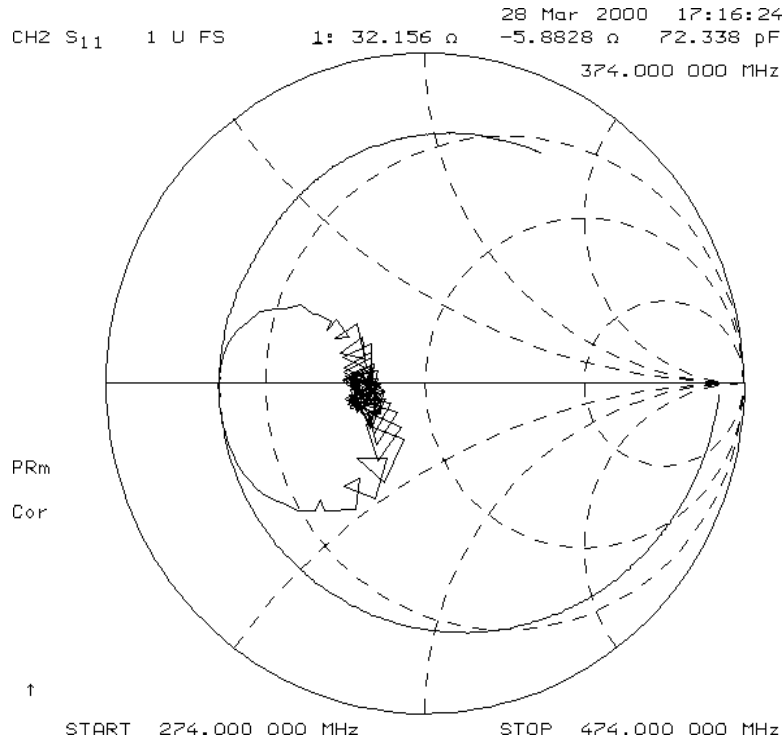
(4) Triple transit suppression:



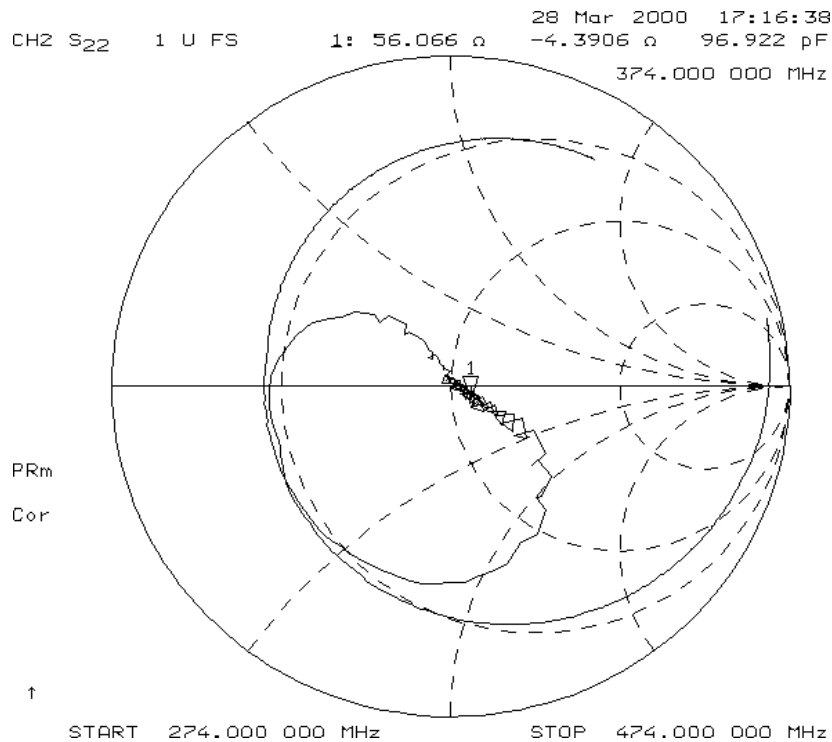
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(5) Smith chart of S₁₁:



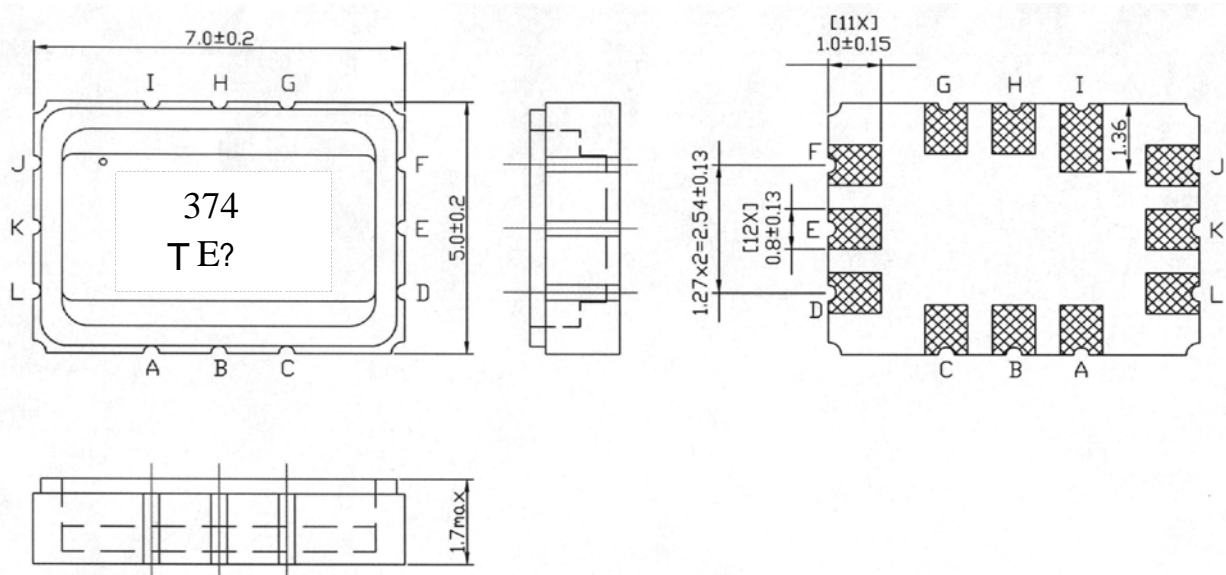
(6) Smith chart of S₂₂:



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D. OUTLINE DRAWING:



Pin configuration:

- I input
- J input or input ground
- C output
- D output or output ground
- A, G, E, F, K, L case ground
- B, H to be ground

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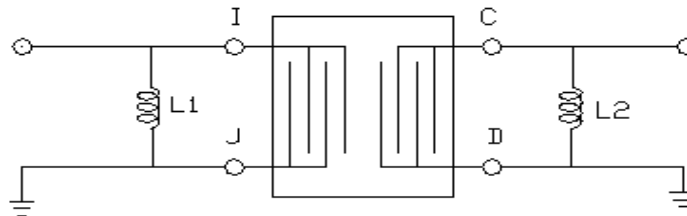
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E. MEASUREMENT CIRCUIT:

50Ω unbalanced:

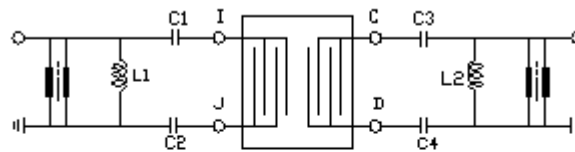


$L1=18nH$

$L2=15nH$

200Ω balanced:

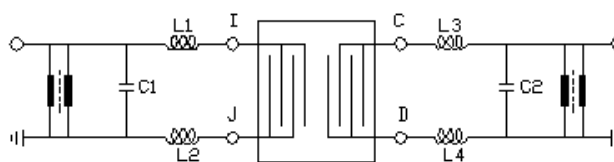
(1)



$C1=C2=20PF$ $C3=C4=20PF$

$L1=22NH$ $L2=22NH$

(2)



$L1=L2=22nH$ $L3=L4=22nH$

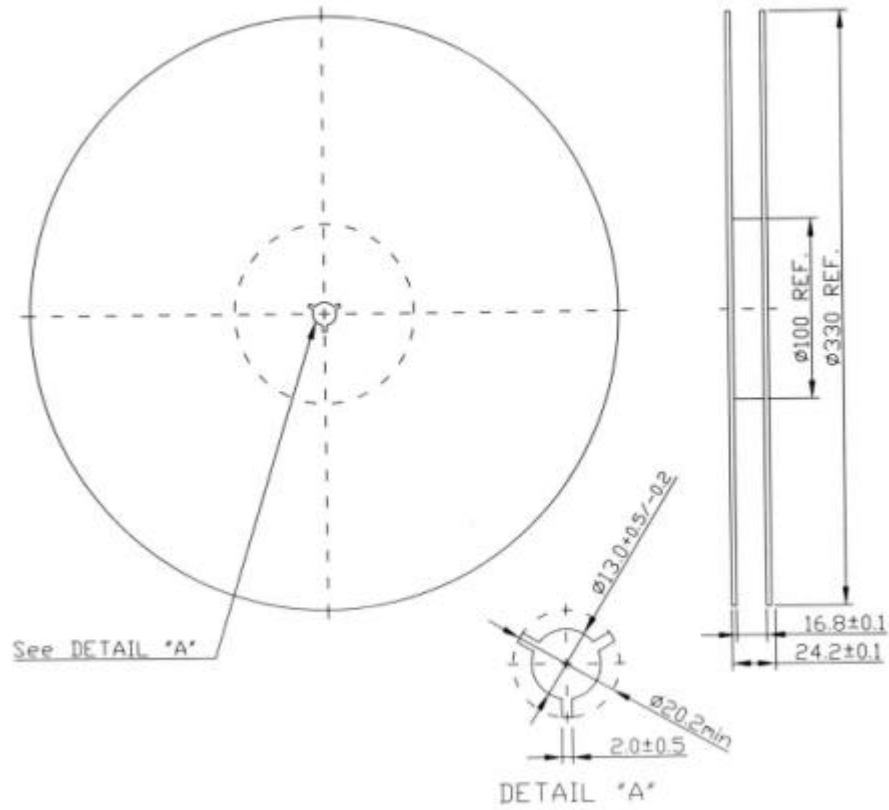
$C1=5PF$ $C2=4PF$

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F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

