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Golledge Electronics Ltd
Ashwell Park, Ilminster
Somerset, TA19 9DX, UK

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	-	

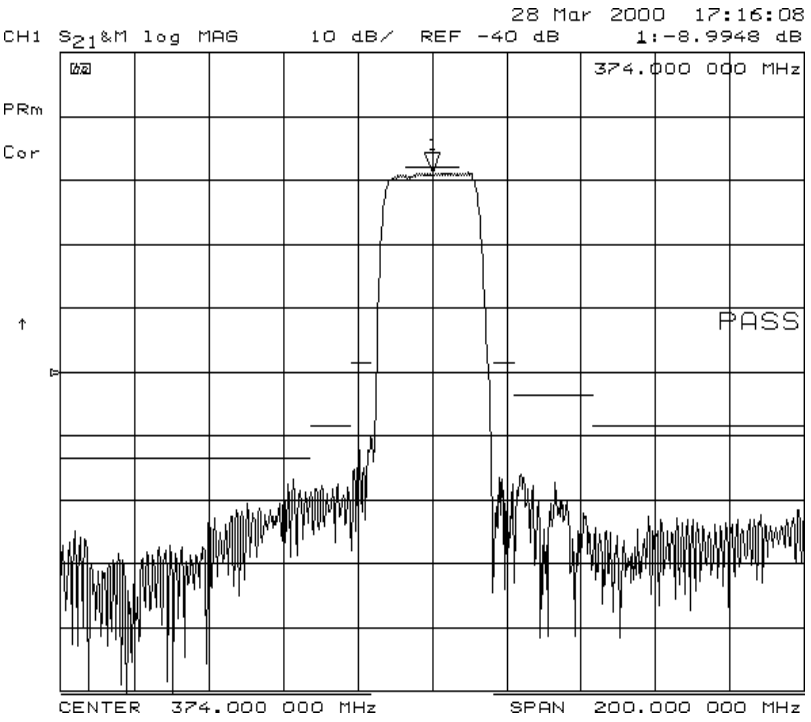
Note1. The standard definitions is in JIS C 6703

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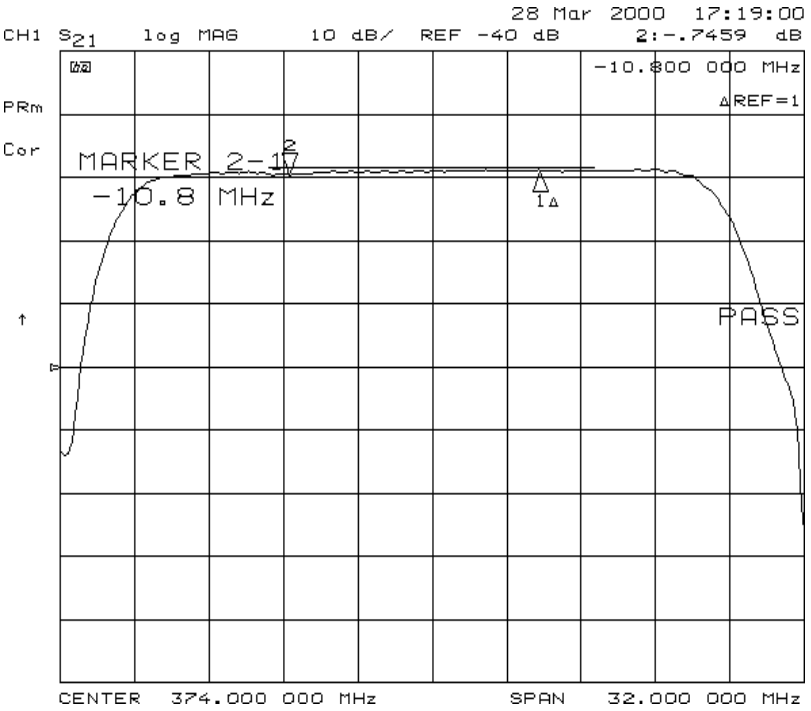
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C. FREQUENCY CHRACTERISTICS:

(1) Wide-band of S21:



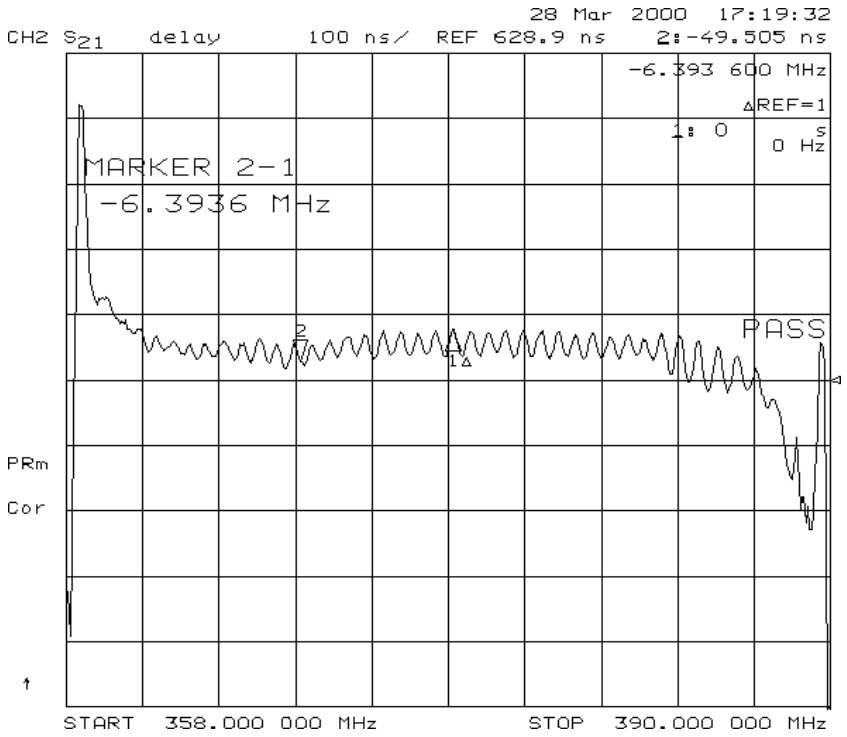
(2) Amplitude ripple:



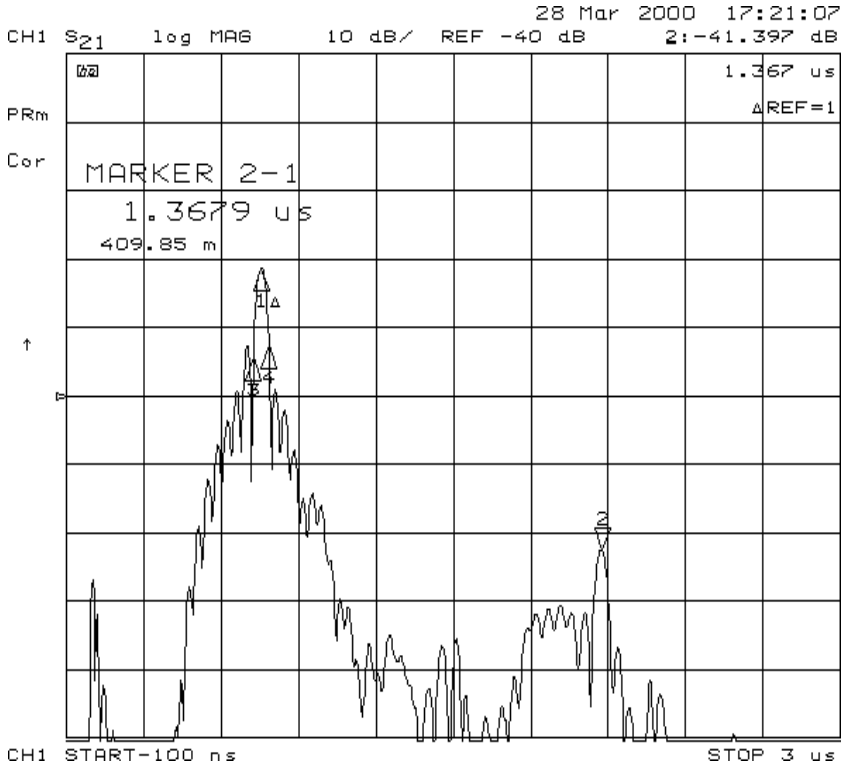
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(3) Group delay:



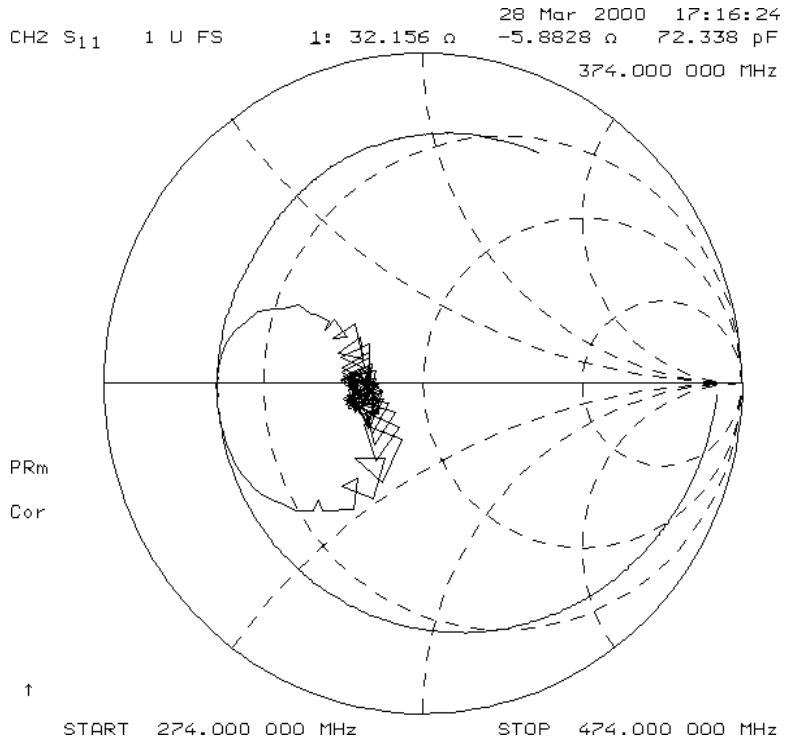
(4) Triple transit suppression:



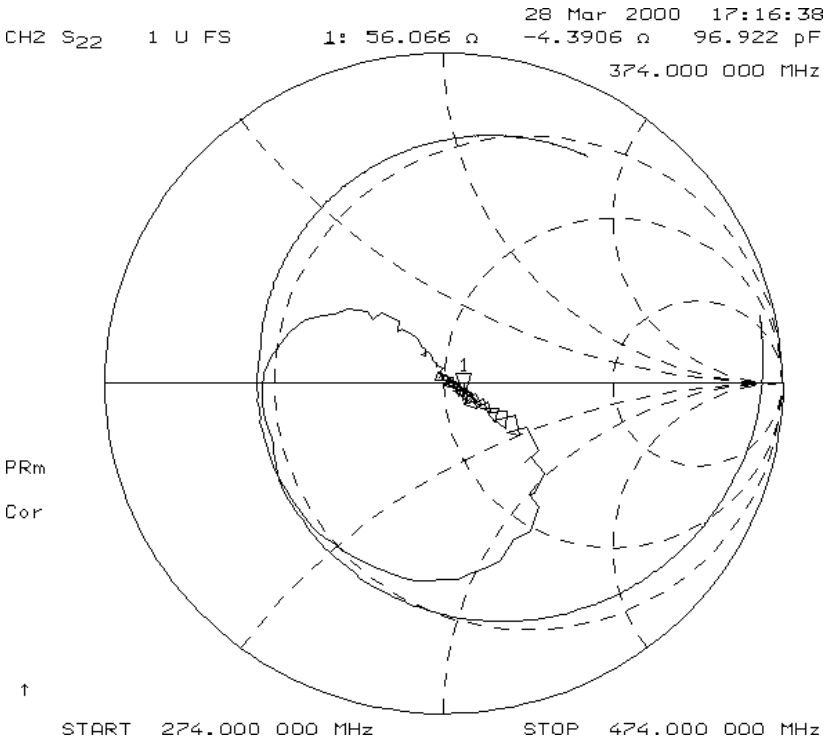
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(5) Smith chart of S_{11}:



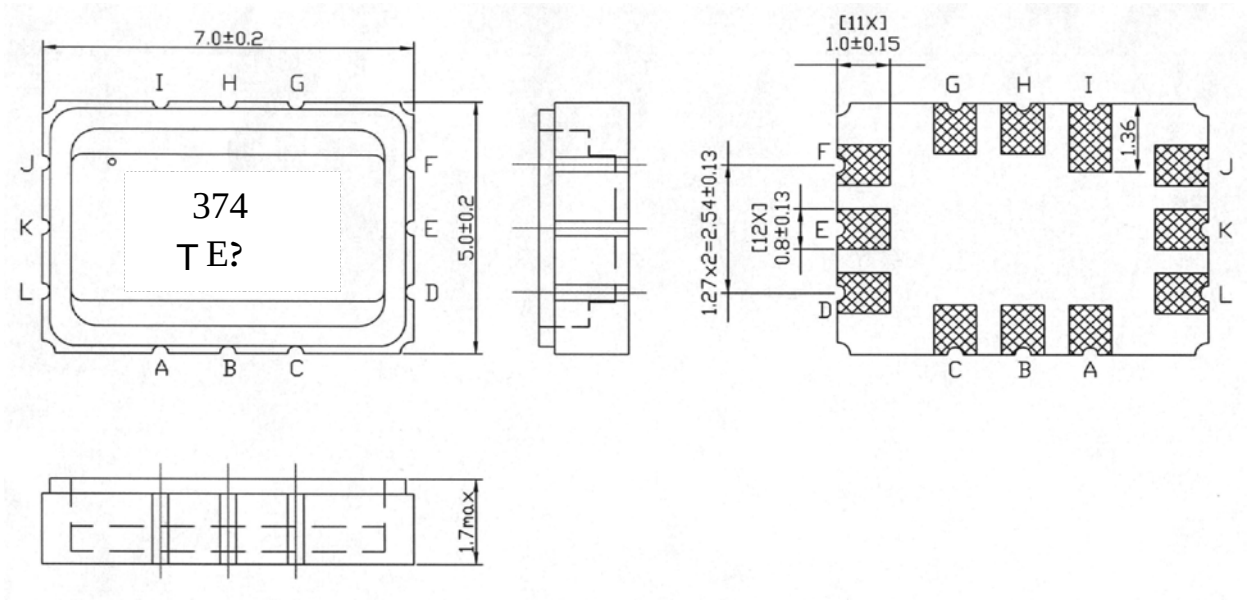
(6) Smith chart of S_{22}:



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D. OUTLINE DRAWING:



Pin configuration:

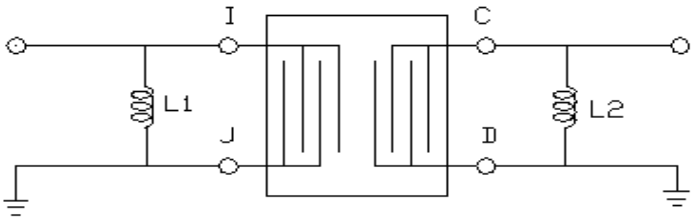
I	input
J	input or input ground
C	output
D	output or output ground
A,G,E,F,K,L	case ground
B,H	to be ground

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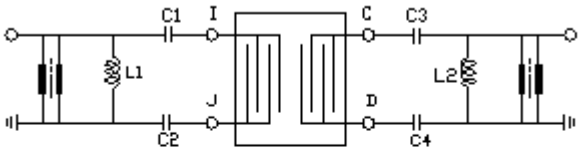
E. MEASUREMENT CIRCUIT:

50Ω unbalanced:



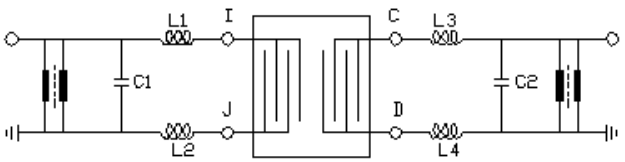
L1=18nH L2=15nH

200Ω balanced:
(1)



C1=C2=20PF C3=C4=20PF
L1=22NH L2=22NH

(2)



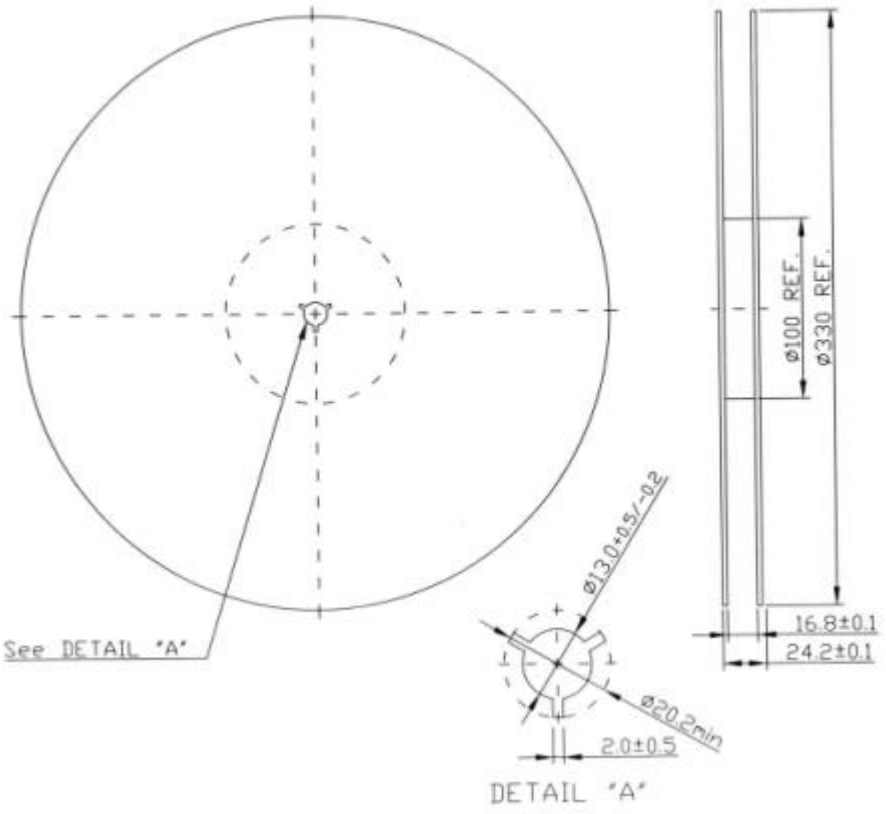
L1=L2=22nH L3=L4=22nH
C1=5PF C2=4PF

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F. PACKING:

1.REEL DIMENSION



2.TAPE DIMENSION

