

SAW Filter 70.0MHz

Model: TB0185A

Part No: MA07421

REV. NO.: 1

A. MAXIMUM RATING:

1. Input Power Level: +20 dBm
2. Operating Temperature: 0°C to +70°C
3. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Parameter	Unit	Min.	Typ.	Max.
Center frequency, Fc	MHz	69.8	70	70.2
Insertion Loss, IL	dB	-	21	23
1 dB Bandwidth	MHz	7.0	7.3	-
3 dB Bandwidth	MHz	7.3	7.9	-
40 dB Bandwidth	MHz	-	10.2	10.75
Amplitude ripple (within ± 2.8 MHz)	dB	-	0.8	1
Phase Linearity (within ± 2.92 MHz) (rms)	deg	-	2.5	6
Group Delay ripple (within ± 2.92 MHz)	nsec	-	50	100
Absolute Delay	μ sec	-	1.02	-
Attenuation (Reference level from 0 dB)				
10 ~ 64MHz	dB	55	62	-
76~140MHz	dB	55	62	-
Substrate Material	-	-	LT	-
Temperature Coefficient	ppm/ °C	-	-18	-
Ambient Temperature	°C	-	25	-

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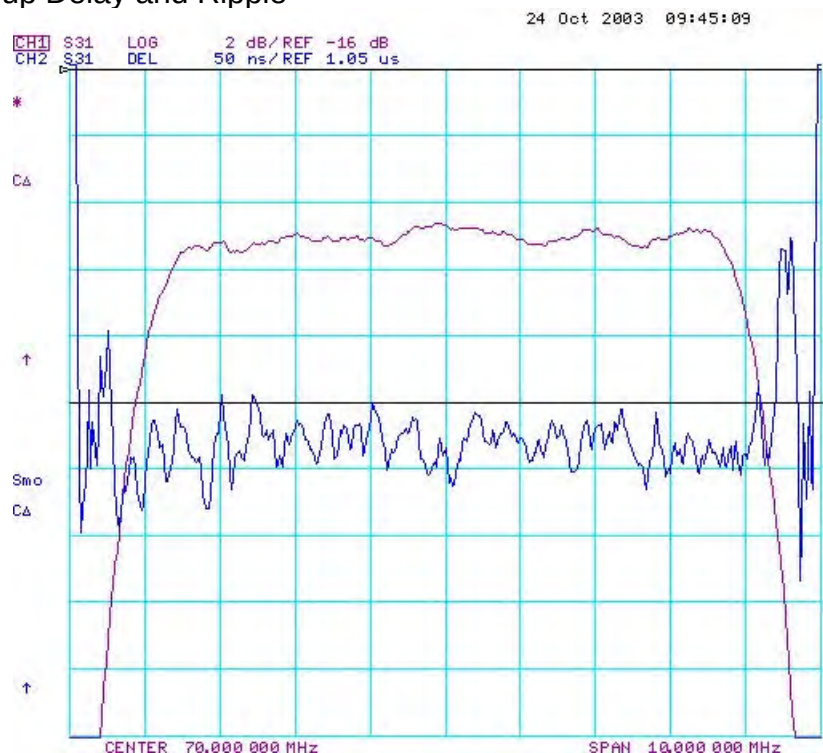
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C. FREQUENCY CHARACTERISTICS:

(1) S21 Response:



(2) Group Delay and Ripple



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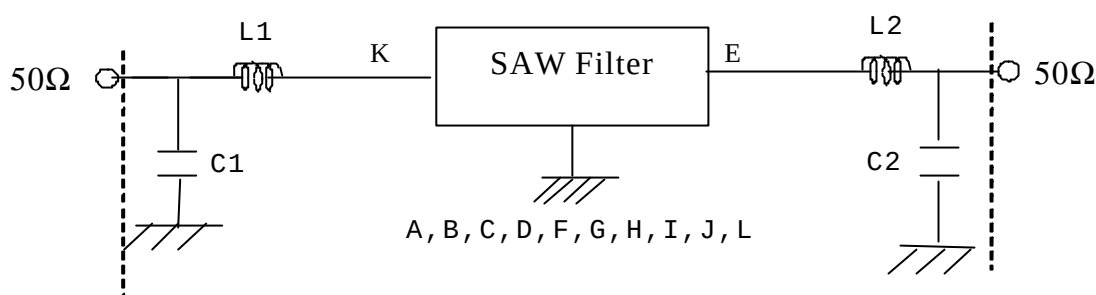
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D. MEASUREMENT CIRCUIT:

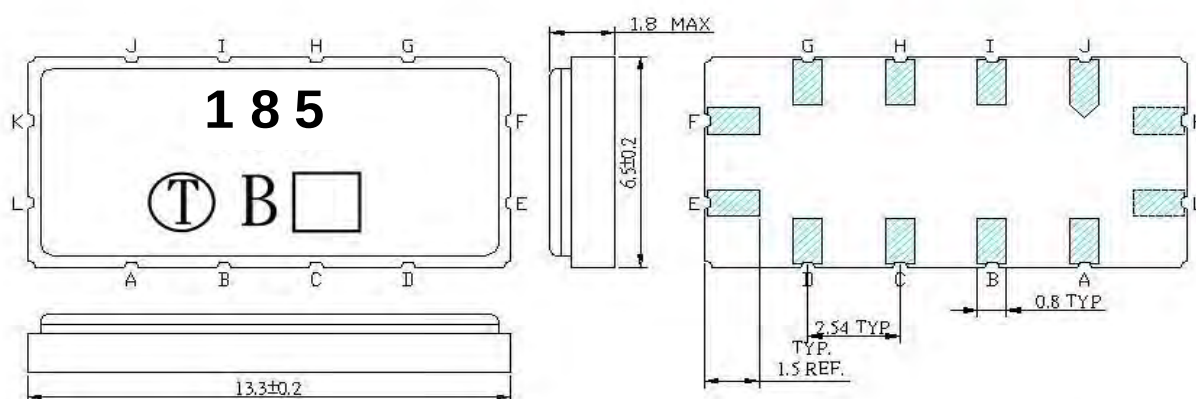
For 50 ohm Unbalanced Input and Output

Network analyzer



Input: L1=180 nH, Q>40; C1=47 pF
 Output: L2=180 nH, Q>40; C2=27 pF

E. OUTLINE DRAWING:



Unit: mm

Pin K: RF Input
 Pin E: RF Output
 Pin L: Input Ground
 Pin F: Output Ground
 Pin A, B, C, D, G, H, I, J: To be Ground