

140.0MHz SAW Filter
Part No: MA05918

Model: TB0203A
REV NO.: 2

A. MAXIMUM RATING:

1. Input Power Level: +20 dBm
2. Operating Temperature: -10°C to +70°C
3. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

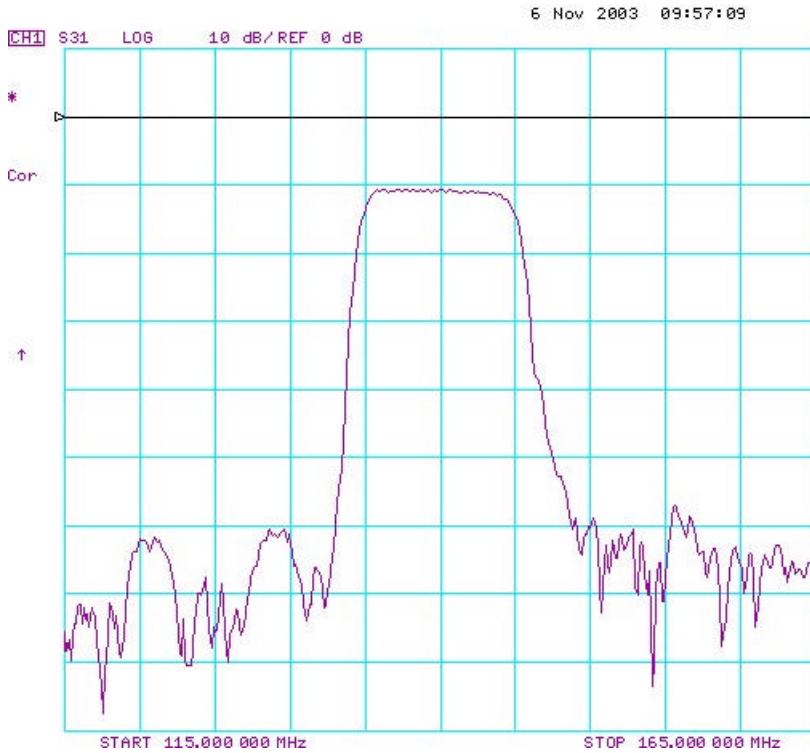
Parameters	Unit	Min.	Typical	Max.
Center frequency, Fc	MHz	139.6	140	140.4
Insertion Loss, IL	dB	-	10.5	11.5
1.5 dB Bandwidth	MHz	8.9	9.3	-
3 dB Bandwidth	MHz	9.4	9.9	-
35 dB Bandwidth	MHz	-	13.5	14.5
Relative Attenuation:				
10 to 132 MHz	dB	45	50	
149 to 260 MHz	dB	40	47	
Amplitude ripple within Fc ± 3.6 MHz	dB	-	0.65	1.0
Group Delay ripple within Fc ± 3.6 MHz	nsec	-	60	150
Substrate Material	-	-	YZ-LN	-
Temperature Coefficient of frequency	ppm/ °C	-	-94	-

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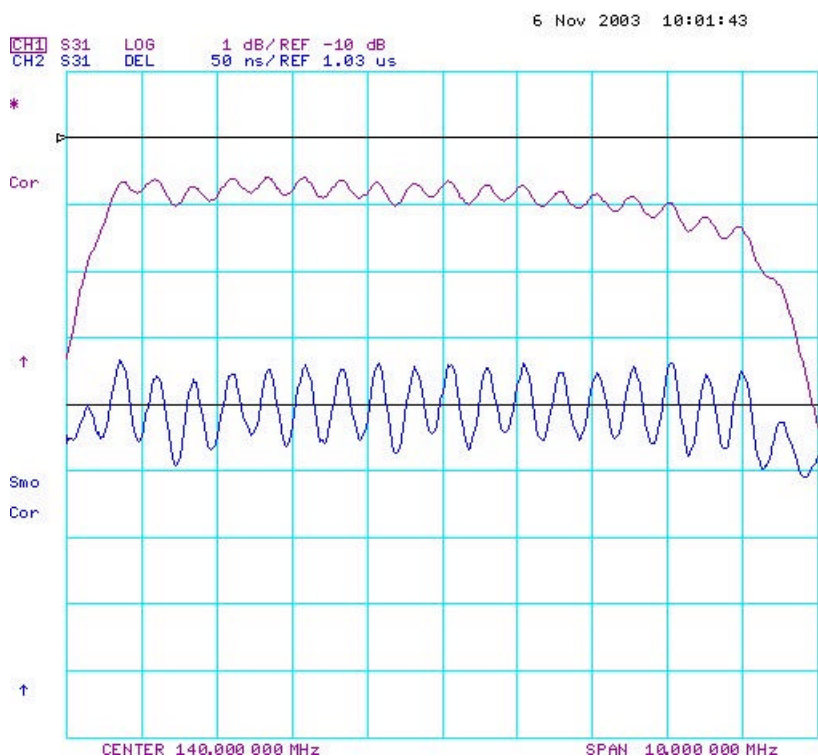
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C. FREQUENCY CHARACTERISTICS:

(1) Frequency Response



(2) Passband response and Group Delay Variation



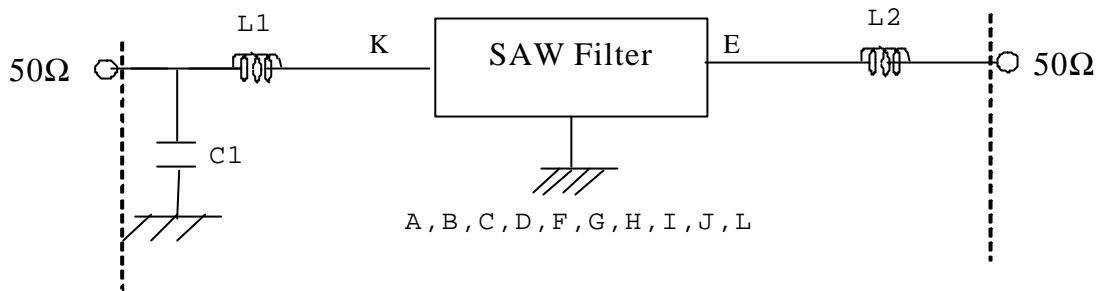
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D. MEASUREMENT CIRCUIT:

Source and load impedance: 50 Ω

Network analyzer



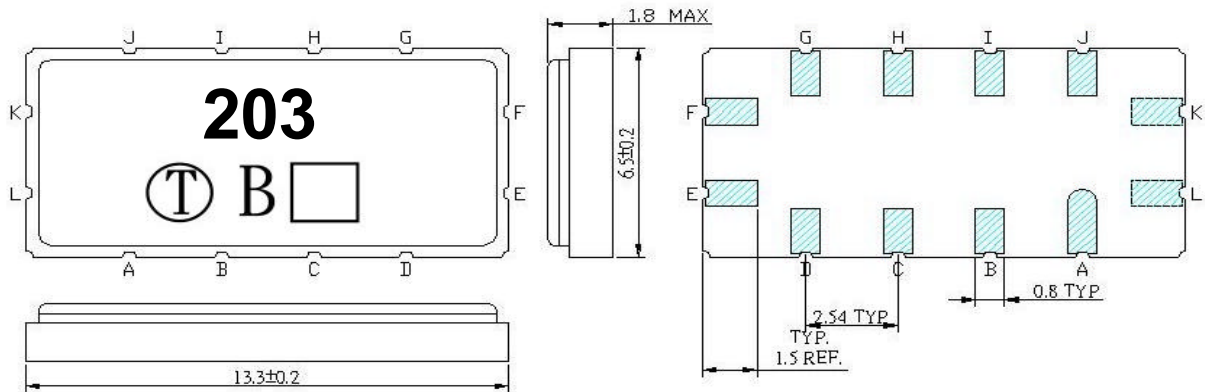
Input: L1=82H, Q>40; C1=33 pF

Output: L2=56 nH, Q>40

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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
 □: Date code