
140.0MHz SAW Filter**Model: TB0203A****Part No: MA05918****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 $\pm$ 3.6 MHz	dB	-	0.65	1.0
Group Delay ripple within Fc $\pm$ 3.6 MHz	nsec	-	60	150
Substrate Material	-	-	YZ-LN	-
Temperature Coefficient of frequency	ppm/ °C	-	-94	-

140.0MHz SAW Filter

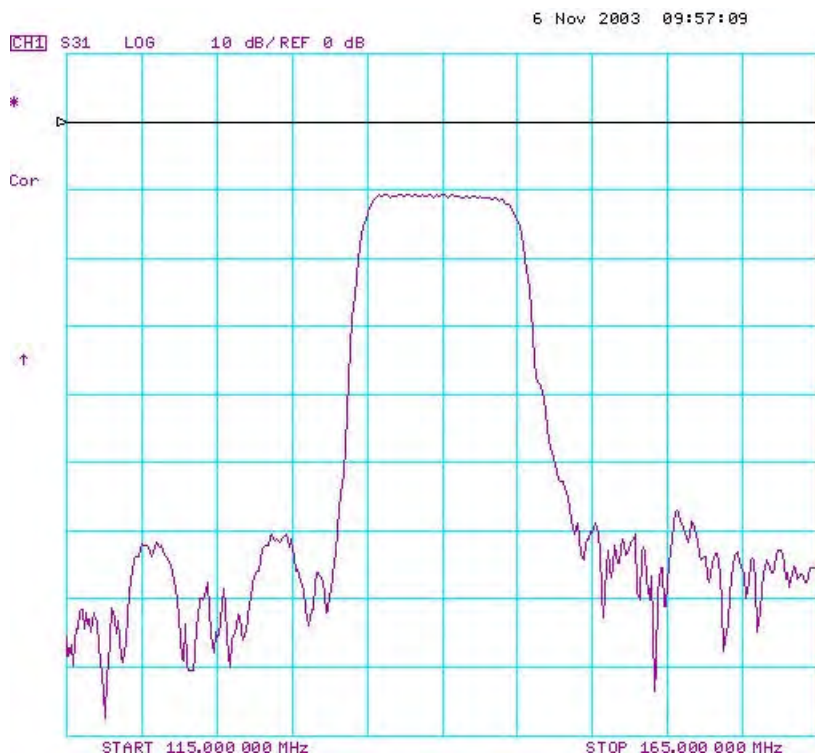
Part No: MA05918

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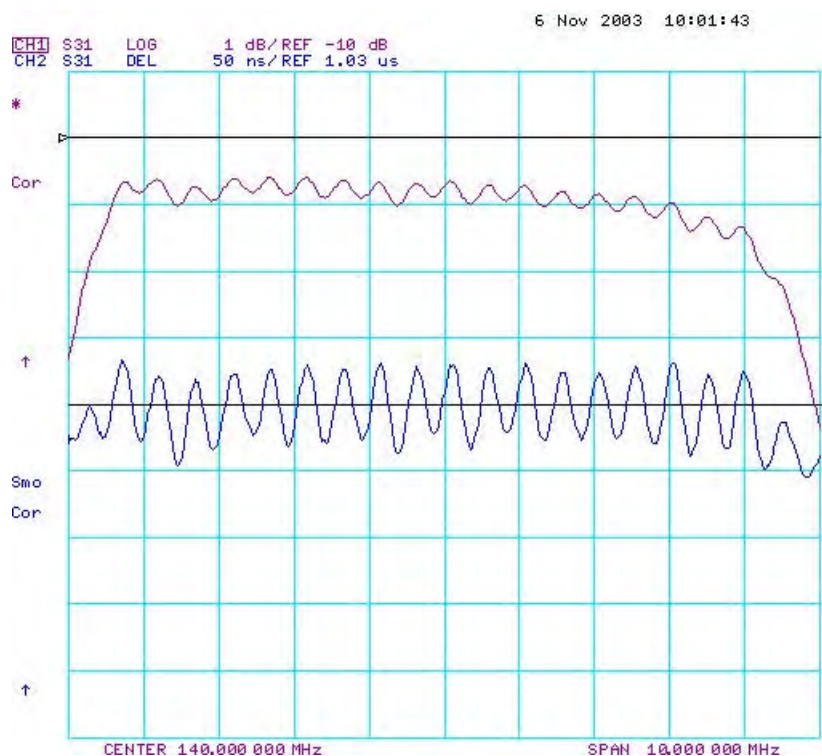
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C. FREQUENCY CHARACTERISTICS:

(1) Frequency Response



(2) Passband response and Group Delay Variation



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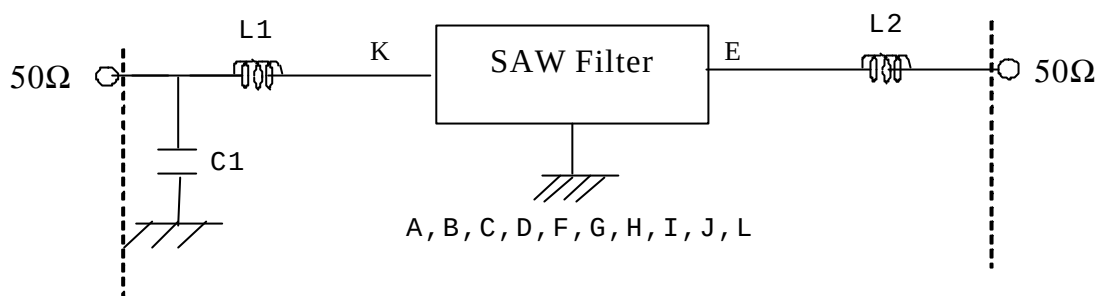
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REV NO.: 2

D. MEASUREMENT CIRCUIT:

Source and load impedance: $50\ \Omega$

Network analyzer



Input: $L1=82\text{H}$, $Q>40$; $C1=33\text{ pF}$

Output: $L2=56\text{ nH}$, $Q>40$

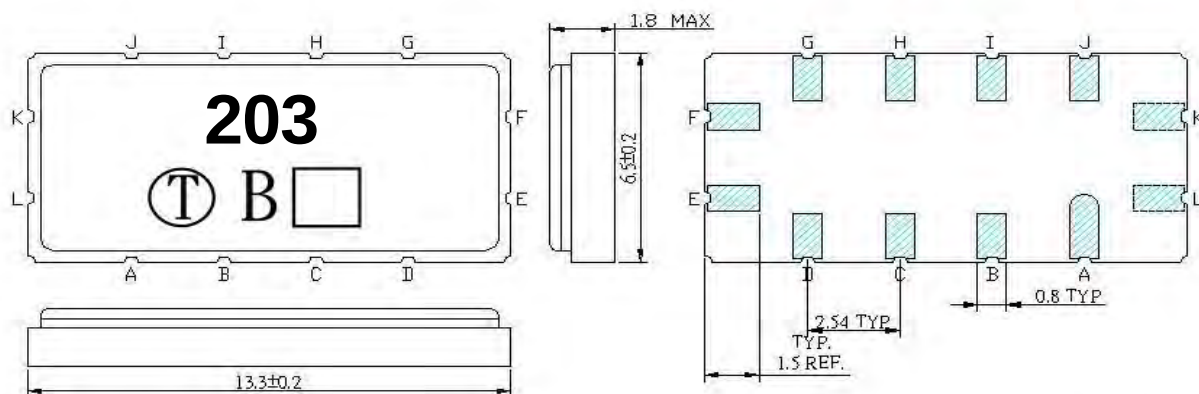
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E. OUTLINE DRAWING:



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