Tel: +44 1460 256 100
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www.golledge.com

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

70.0 MHz SAW Filter - Low loss

Model: **TB0202A**

Part No: **MA05603**

REV NO.: 2

A. MAXIMUM RATING:

1. Input Power Level: +20 dB_m
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	69.8	70	70.2
Insertion Loss, **IL**	dB	-	13.8	15
1 dB Bandwidth	MHz	18.8	19.1	-
3 dB Bandwidth	MHz	19.9	20.1	-
40 dB Bandwidth	MHz	-	24.1	25.5
Relative Attenuation:				
10 to 57 MHz	dB	40	45	-
83 to 140 MHz	dB	40	45	-
Amplitude ripple within Fc ± 8.2 MHz	dB	-	0.5	1.0
Group Delay ripple within Fc ± 8.2 MHz	nsec	-	40	70
Substrate Material	-	-	YZ-LN	-
Temperature Coefficient of frequency	ppm/ °C	-	-94	-

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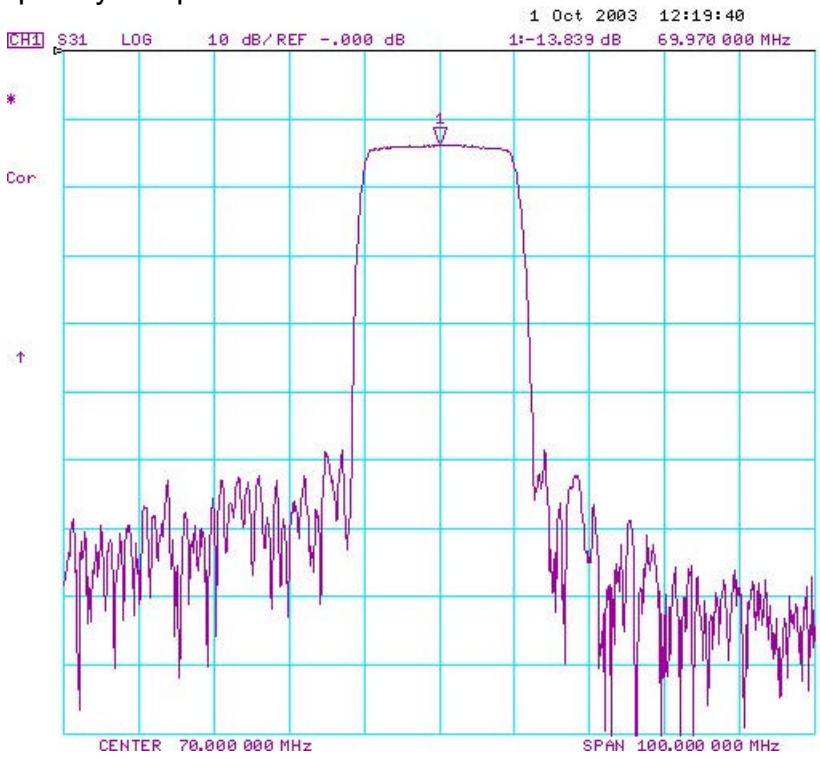
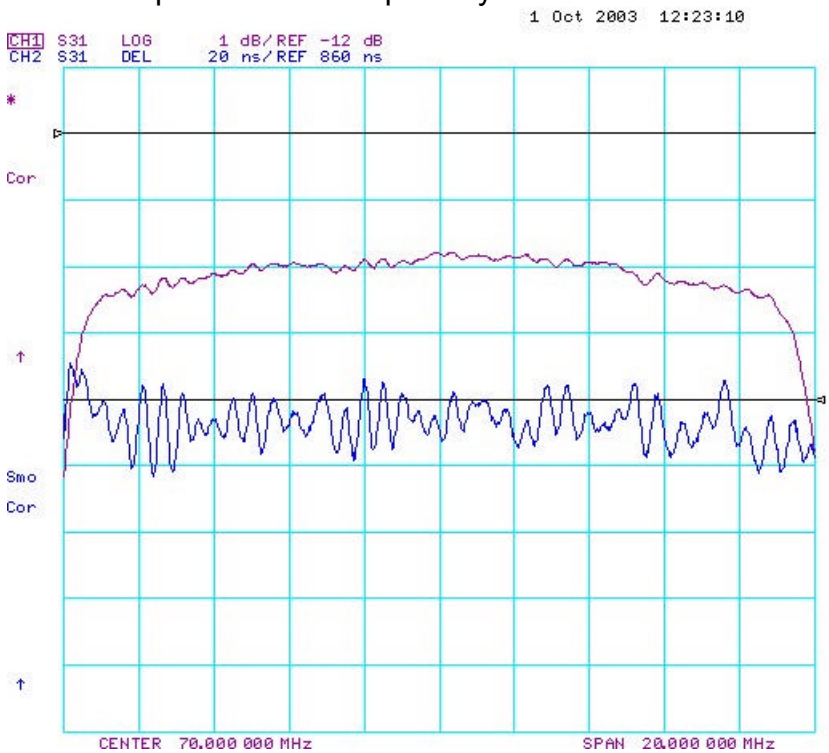
C. FREQUENCY CHARACTERISTICS:

(1) Frequency Response



(2) Passband response and Group Delay Variation



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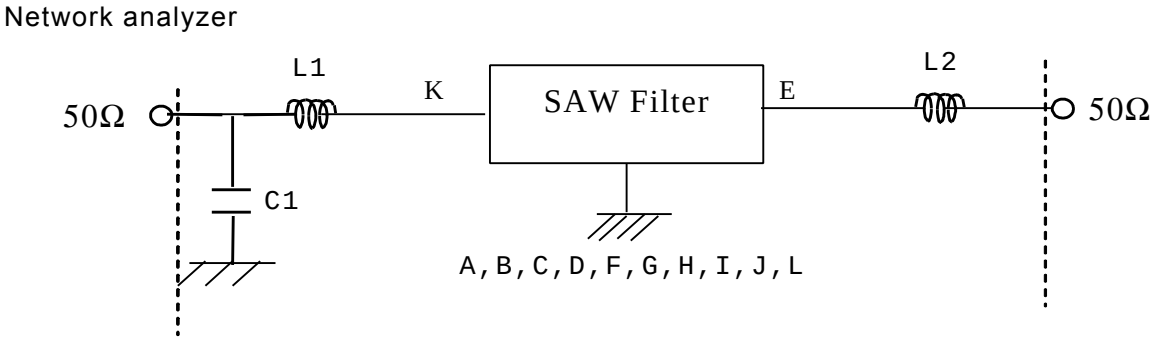
D. MEASUREMENT CIRCUIT:

Source and load impedance: 50 Ω



Input: L1=100+39 nH, Q>40; C1=47 pF
Output: L2=220+22 nH, Q>40

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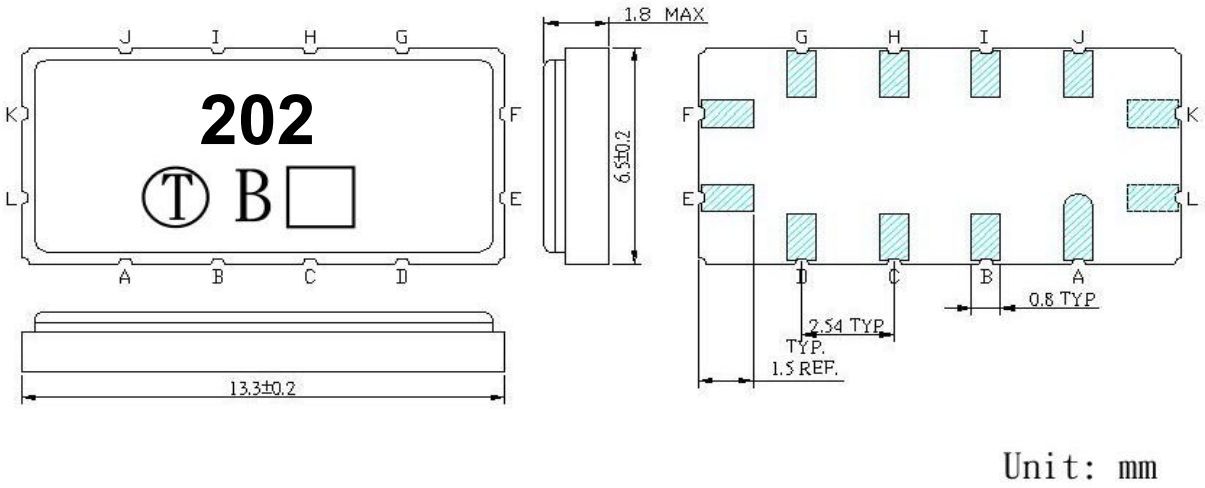
E. OUTLINE DRAWING:



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