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

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

SAW Filter 70.0MHz — Model: TB0225A

Part No: **MA06472** 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	-	70	-
Insertion Loss, **IL**	dB	-	22.2	24
1 dB Bandwidth	MHz	-	9.0	-
3 dB Bandwidth	MHz	9.20	9.33	-
40 dB Bandwidth	MHz	-	10.67	11.00
Relative Attenuation:				
10 to 64 MHz	dB	40	45	-
76 to 140 MHz	dB	40	45	-
Amplitude ripple within Fc ± 4.0 MHz	dB	-	0.8	1.5
Group delay ripple within Fc ± 4.0 MHz	nsec	-	70	150
Absolute Delay	usec	-	1.59	-
Substrate Material	-	-	LT	-
Temperature Coefficient of frequency	ppm/ °C	-	-18	-

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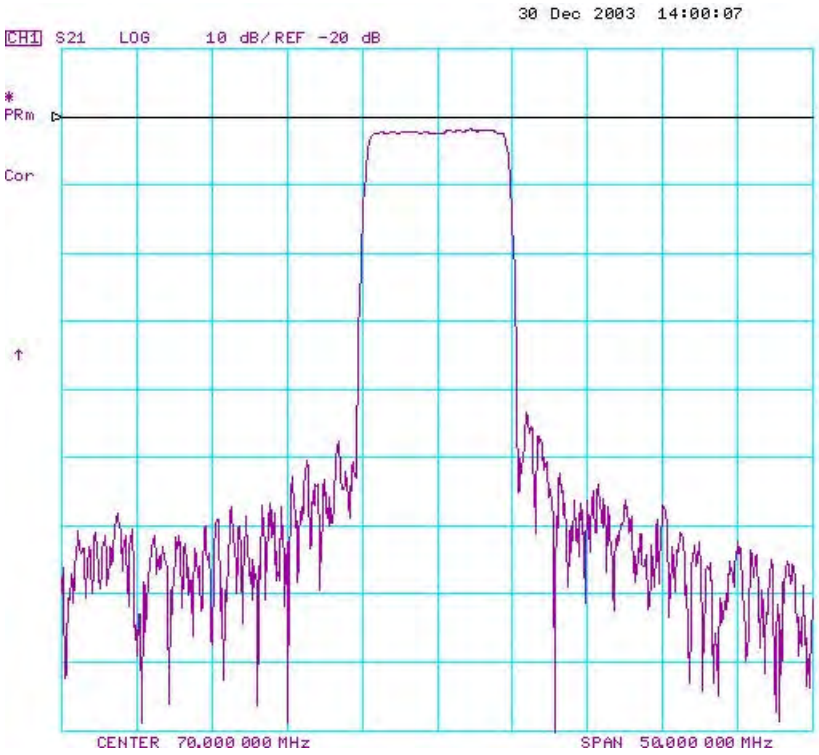
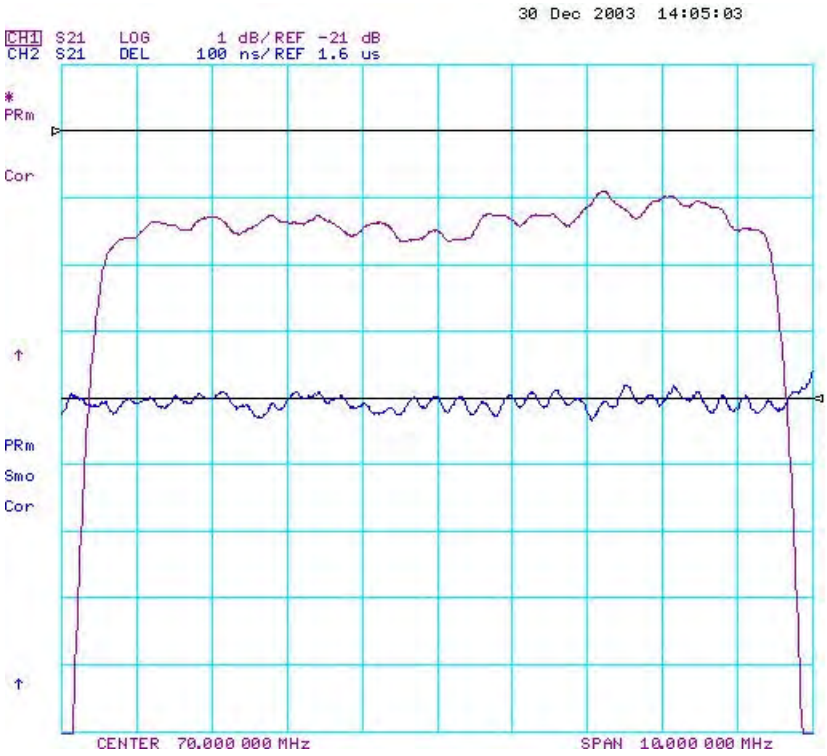
C. FREQUENCY CHARACTERISTICS:

(1) Frequency Response



(2) Passband response and Group Delay Variation



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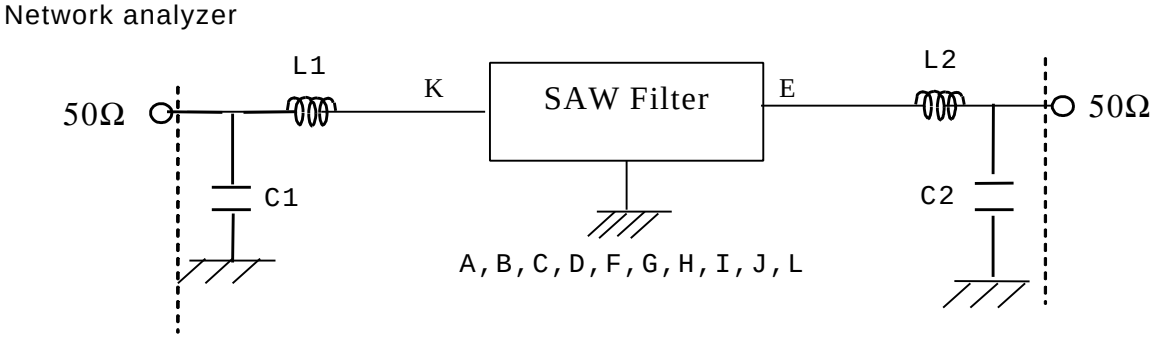
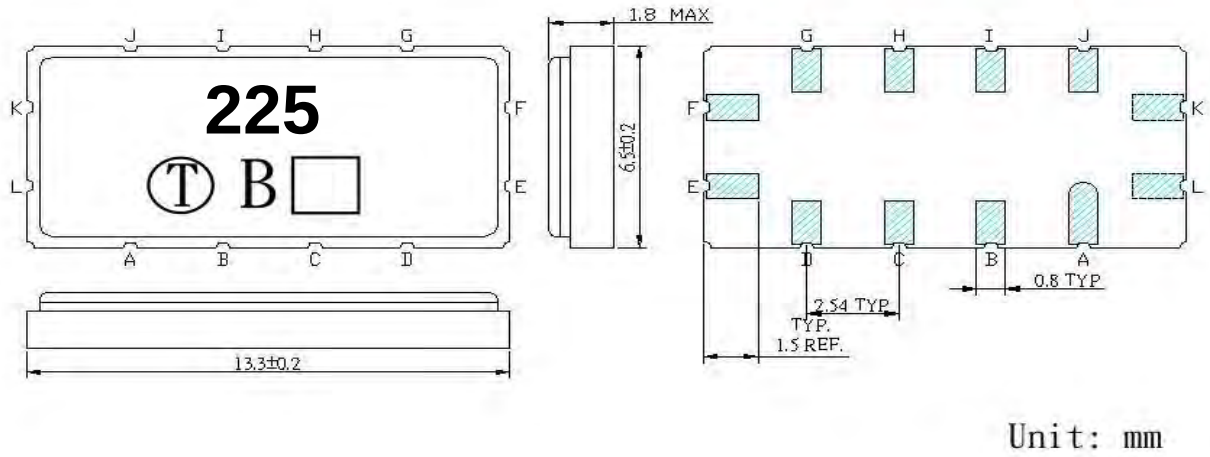
D. MEASUREMENT CIRCUIT:

Source and load impedance: 50 Ω



Input: L1=150 nH; C1=56 pF
Output: L2=369 nH; C2=62 pF

E. OUTLINE DRAWING:



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