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Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

SAW Filter 70.0MHz — Model: TB1028A
Part No: MP04766 — Rev No: 1

A. MAXIMUM RATING:

Electrostatic **S**ensitive **D**evice

1. Input Power Level: +20 dB_m
2. Operating Temperature: -30°C to +80°C
3. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	69.8	70	70.2
Insertion Loss IL	dB	-	9.1	11.0
1dB Bandwidth	MHz	5.2	5.8	-
3dB Bandwidth	MHz	6.0	6.8	-
40dB Bandwidth	MHz	-	9.6	10.0
Relative Attenuation:				
10 to 64.5MHz	dB	40	45	-
75.5 to 140MHz	dB	37	41	-
Amplitude ripple within Fc ± 2.1MHz	dB	-	0.8	1.0
Group Delay ripple within Fc ± 2.1MHz	nsec	-	100	170
Substrate Material	-	-	YZ-LN	-
Temperature Coefficient of frequency	ppm/°C	-	-94	-

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C. FREQUENCY CHARACTERISTICS:

1. Frequency Response

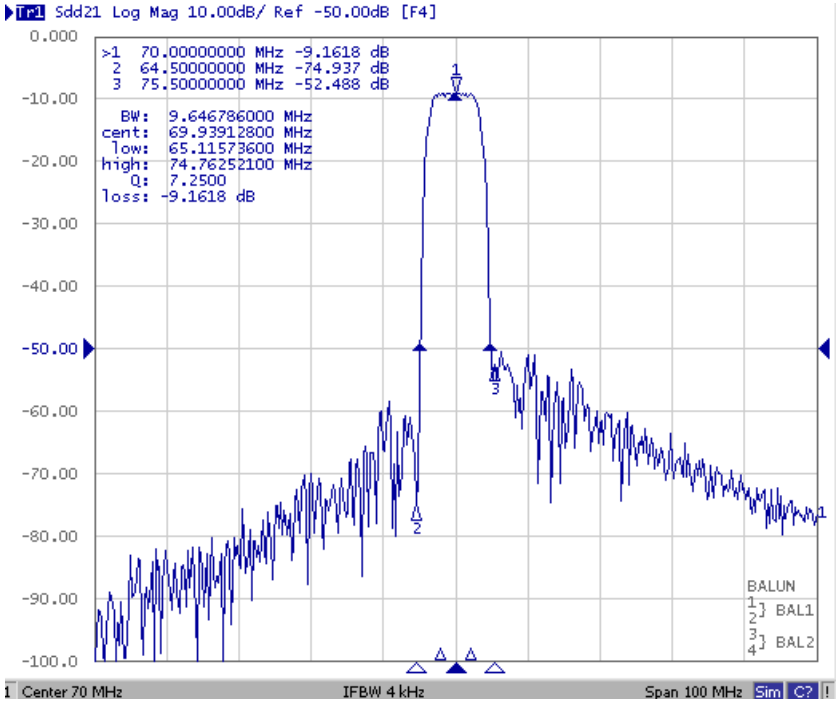


Fig. 1: Horizontal: 10MHz / Div, Vertical: 10dB / Div

2. Passband response and Group Delay Variation

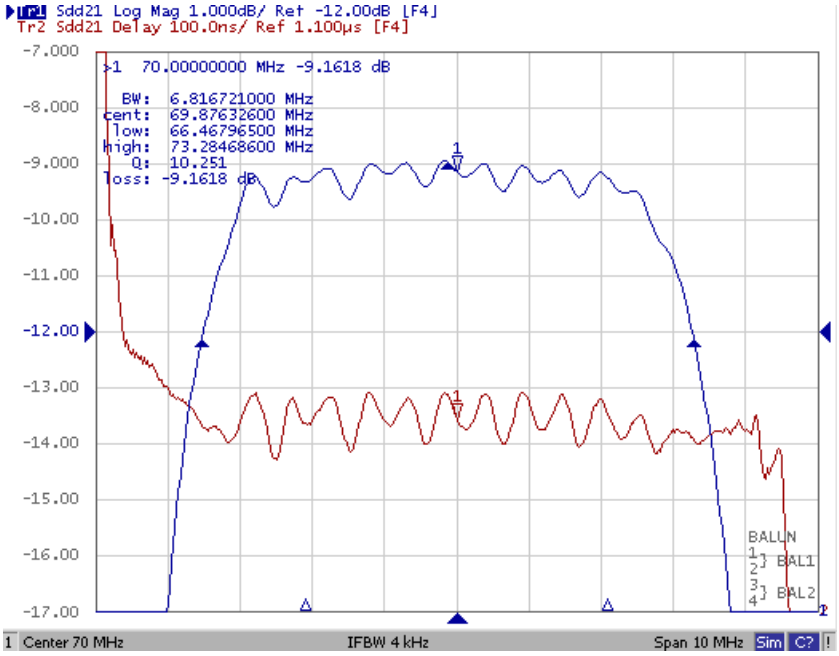
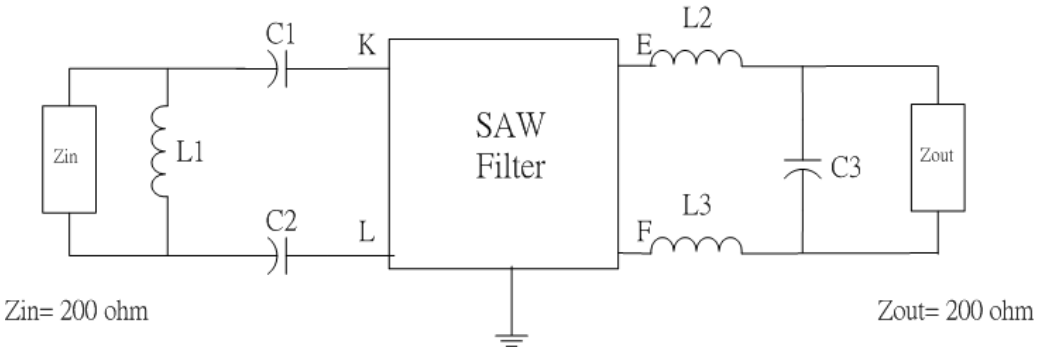


Fig. 2: Horizontal: 1MHz / Div, Vertical: 1dB / Div, Vertical: 100ns / Div

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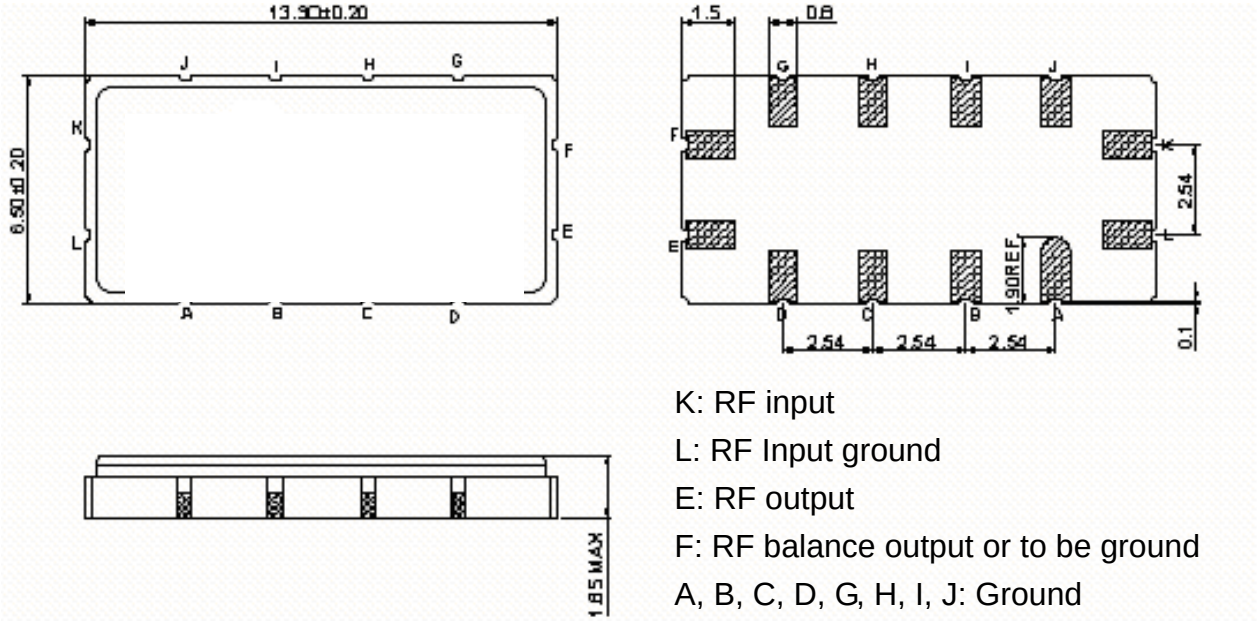
D. MEASUREMENT CIRCUIT:



L1 = 180nH L2 = L3 = 120nH C1 = C2 = 82pF C3 = 22pF

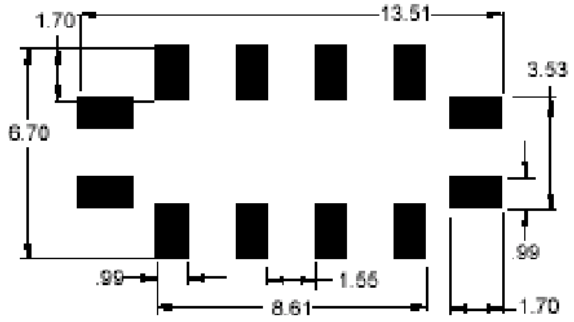
E. OUTLINE DRAWING:

Laser Marking



K: RF input
L: RF Input ground
E: RF output
F: RF balance output or to be ground
A, B, C, D, G, H, I, J: Ground
Unit: mm

F. PCB FOOTPRINT:

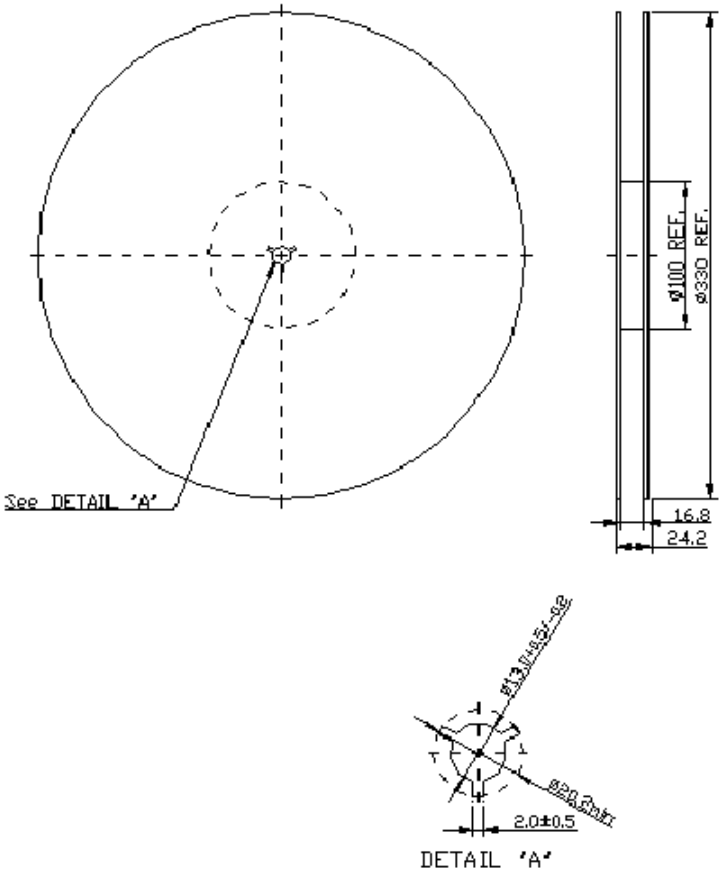


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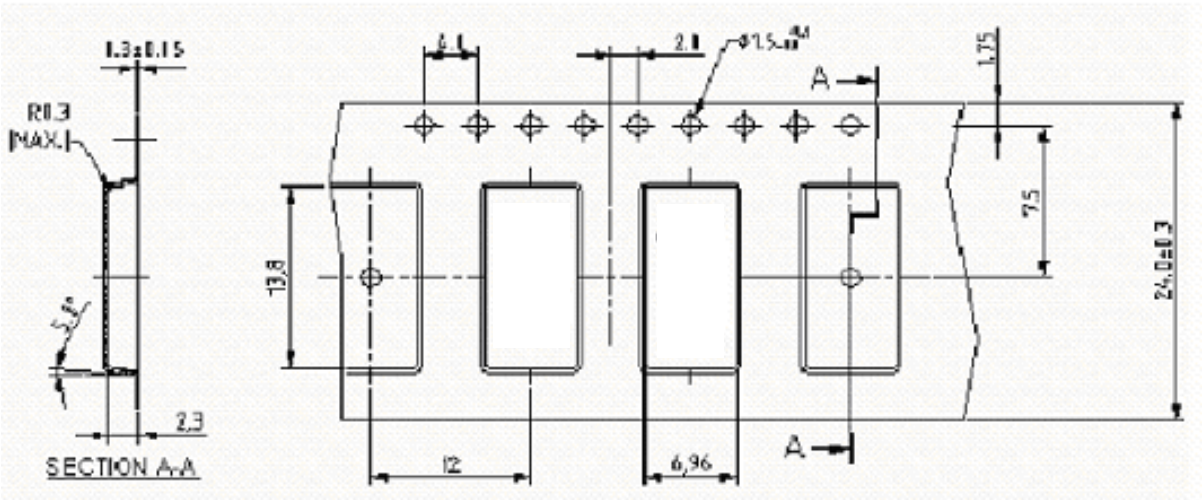
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

