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

SAW Filter 276.50MHz — Model: TB1106A
Part No: MP04572 — Rev No: 1

A. MAXIMUM RATING:

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

1. Operating temperature range: -40°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	276.5	-
Insertion Loss IL	dB	-	11.4	12.0
-1dB bandwidth	MHz	40	44	-
-3dB bandwidth	MHz	-	47	-
Passband Ripple Fc ± 20MHz	dB	-	0.7	1.0
Attenuation: (Reference level from Min IL)				
DC ~ 236MHz	dB	40	54	-
316MHz ~ 500MHz	dB	40	49	-
500MHz ~ 1000MHz	dB	40	55	-
Fc -30MHz	dB	30	50	-
Fc +30MHz	dB	30	45	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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C. FREQUENCY CHARACTERISTICS:

1. Narrow band Response: (span 300MHz)

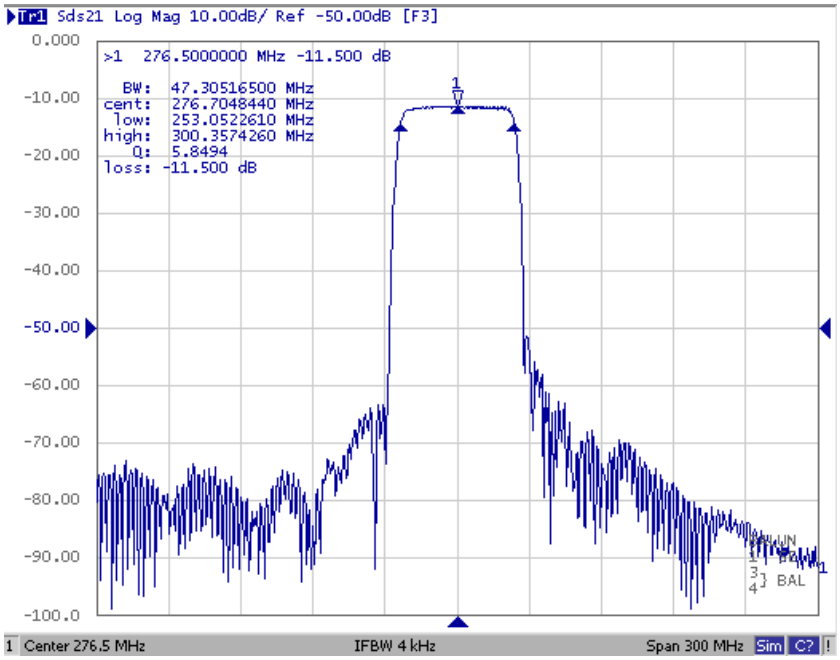

Fig. 1: Horizontal: 30MHz / Div, Vertical: 10Db / Div

2. Pass band Response and Group Time Delay response:

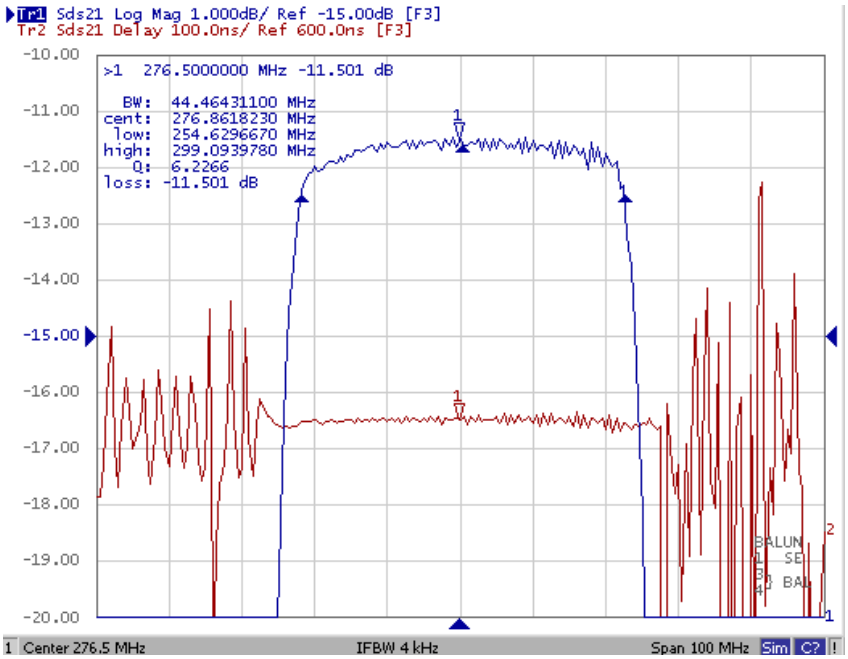

Fig. 2: Horizontal: 10MHz / Div, Vertical: 1dB / Div, Vertical: 100ns / Div

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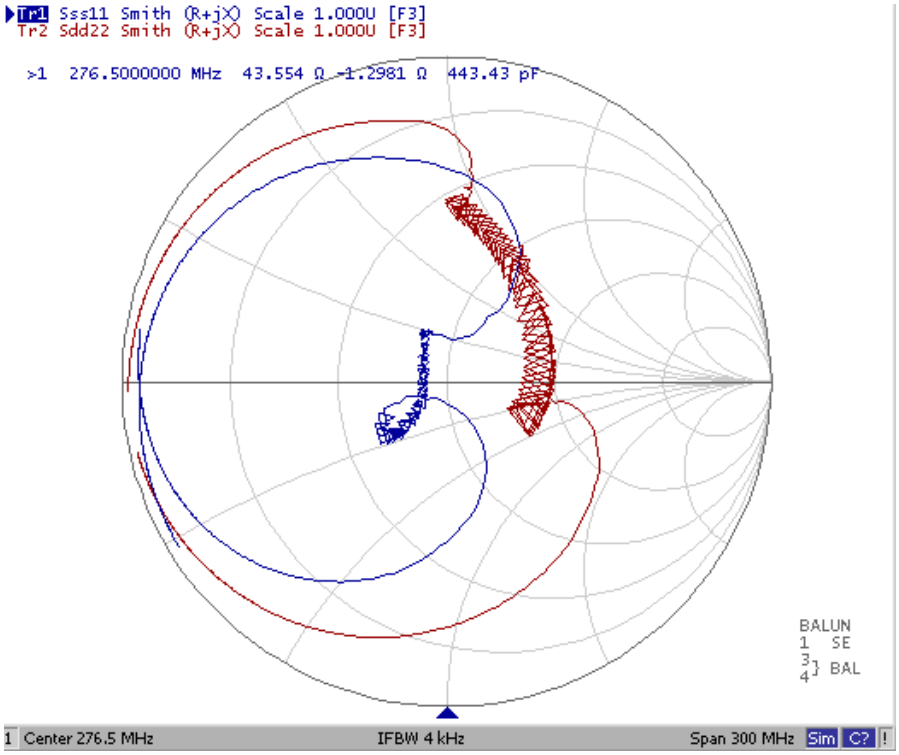
3. Smith Chart:



4. Wide band Response:

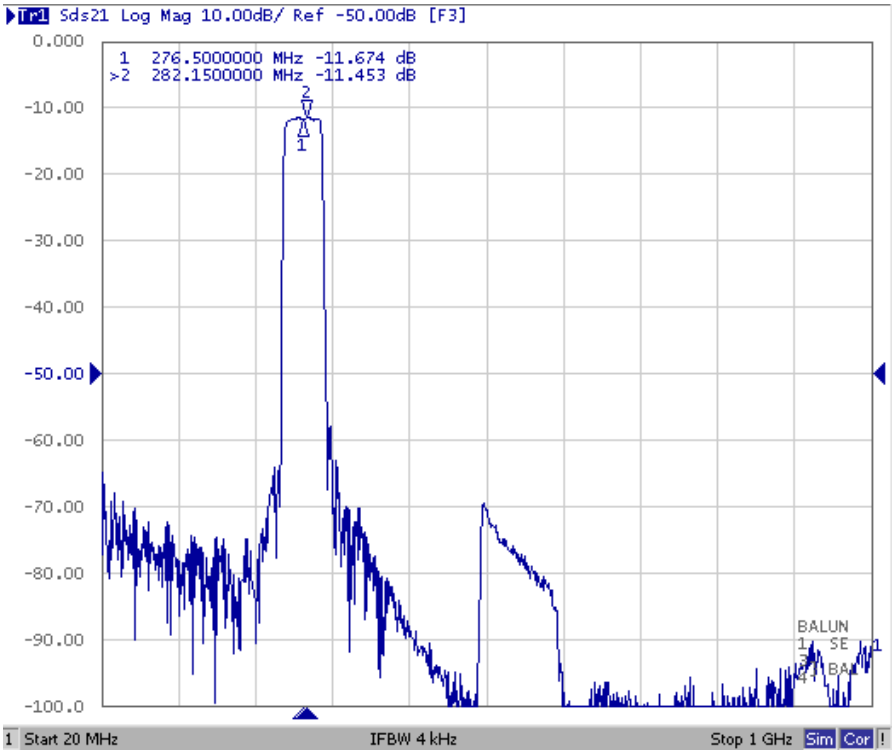


Fig. 4: Horizontal: 90MHz / Div, Vertical: 10dB / Div

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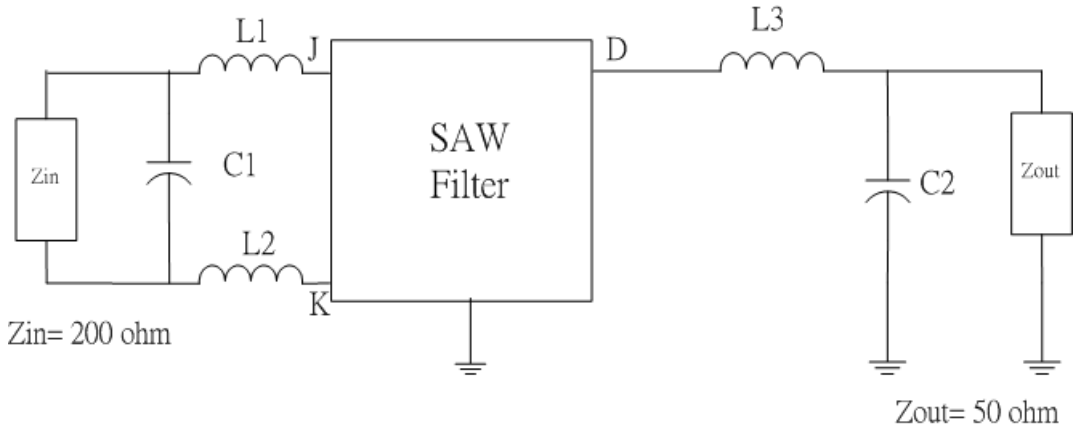
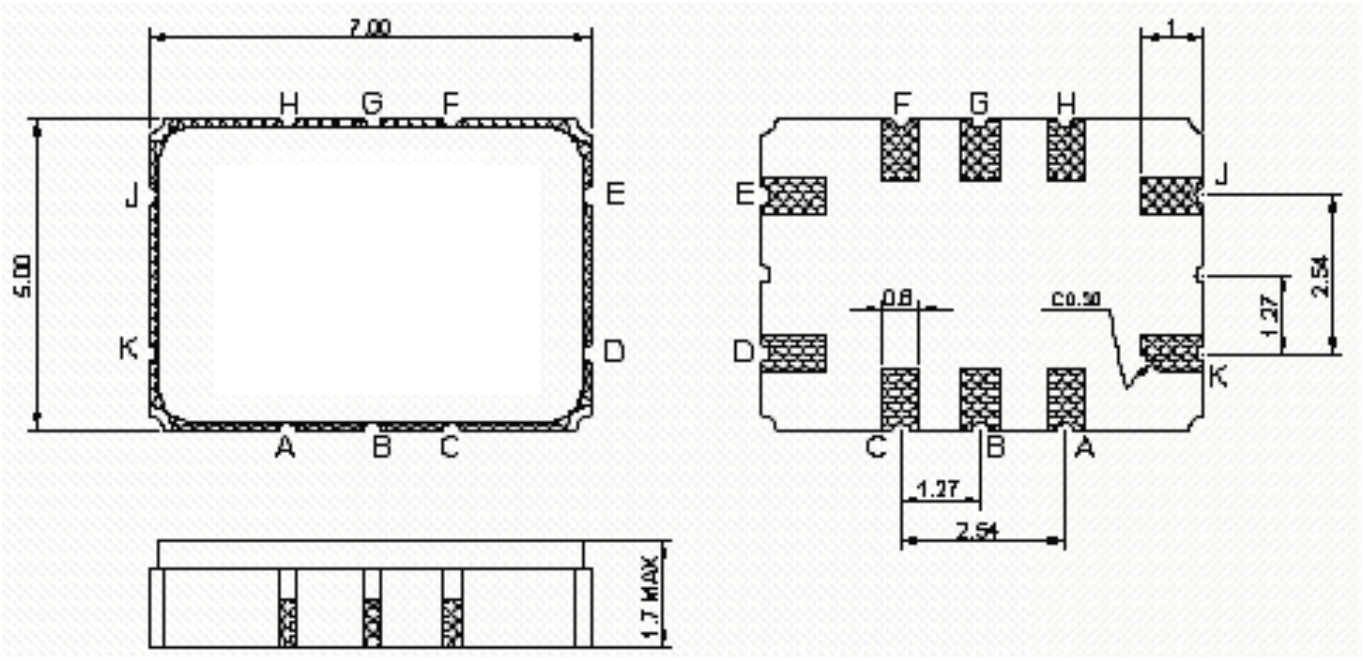
D. MATCHING CIRCUIT:



L1 = L2 = 18nH L3 = 18nH C1 = 8pF C2 = 27pF

E. OUTLINE DRAWING:



J: RF input

K: RF balance input or to be ground

D: RF output

E: RF output ground

A, B, C, F, G, H: Ground

Unit: mm

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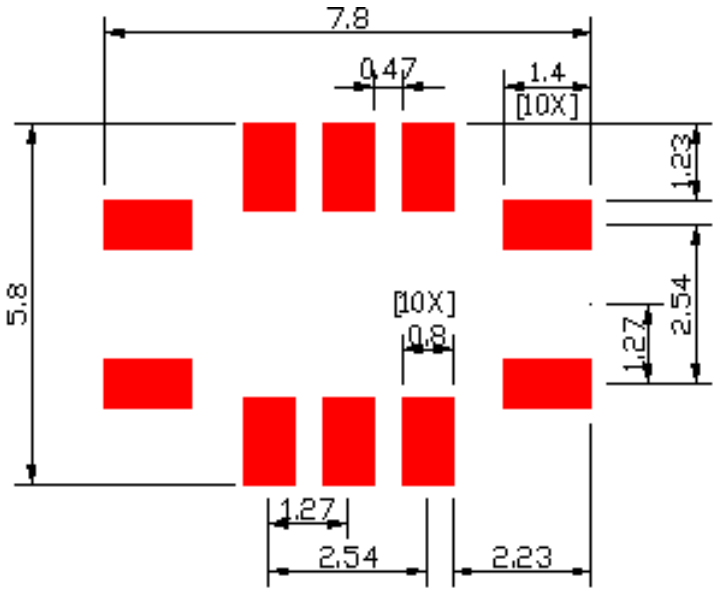
F. PCB FOOTPRINT:



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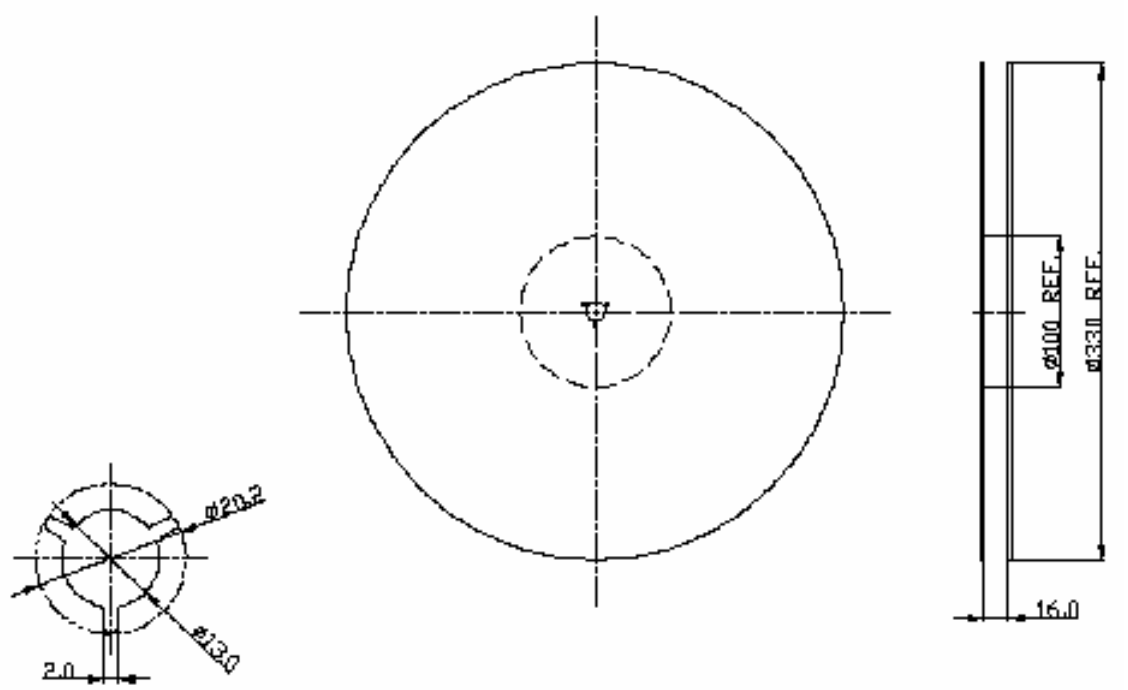
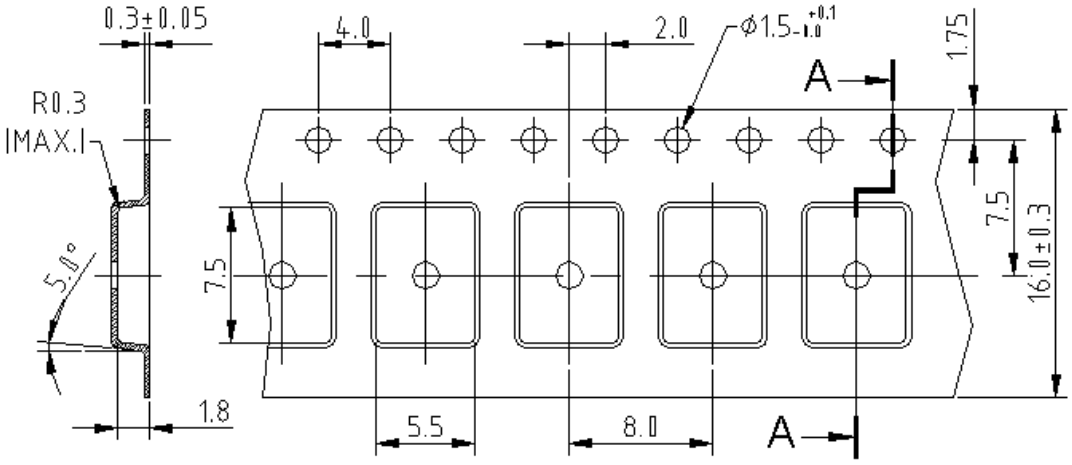
G. PACKING:

1. Reel Dimension

(Please refer to FR-75D10 for packing quantity)



2. Tape Dimension



Direction of feed

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H. RECOMMENDED REFLOW PROFILE: