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

SAW Filter 279.70MHz — Model: TB0969A
Part No: MP04568 — Rev No: 1

A. MAXIMUM RATING:

1. Operating temperature range: -30°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	-	279.7	-
Insertion Loss IL	dB	-	13.5	16.0
-1dB bandwidth	MHz	55	57.5	-
-40dB bandwidth	MHz	-	71	80
Passband Ripple Fc ± 25MHz	dB	-	0.5	1.0
Attenuation: (Reference level from Min IL)				
DC ~ 180MHz	dB	45	55	-
180MHz ~ 215MHz	dB	40	54	-
345MHz ~ 380MHz	dB	40	50	-
380MHz ~ 480MHz	dB	45	55	-
480MHz ~640MHz	dB	35	42	-
640MHz ~ 1000MHz	dB	45	65	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 400MHz)

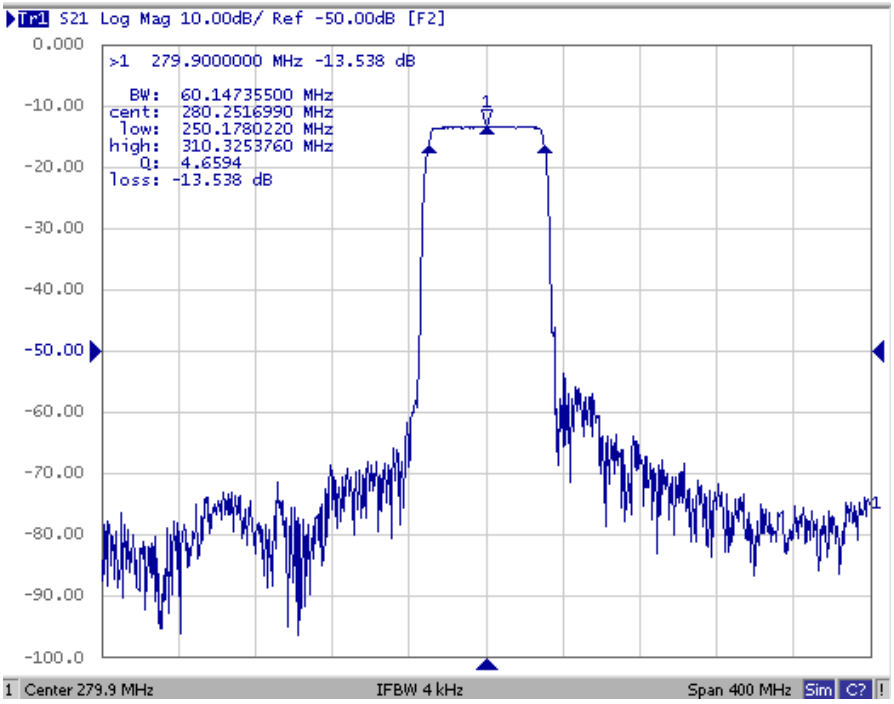

Fig. 1: Horizontal: 40MHz / Div, Vertical: 10dB / Div

2. Pass band Response and Group Time Delay response:

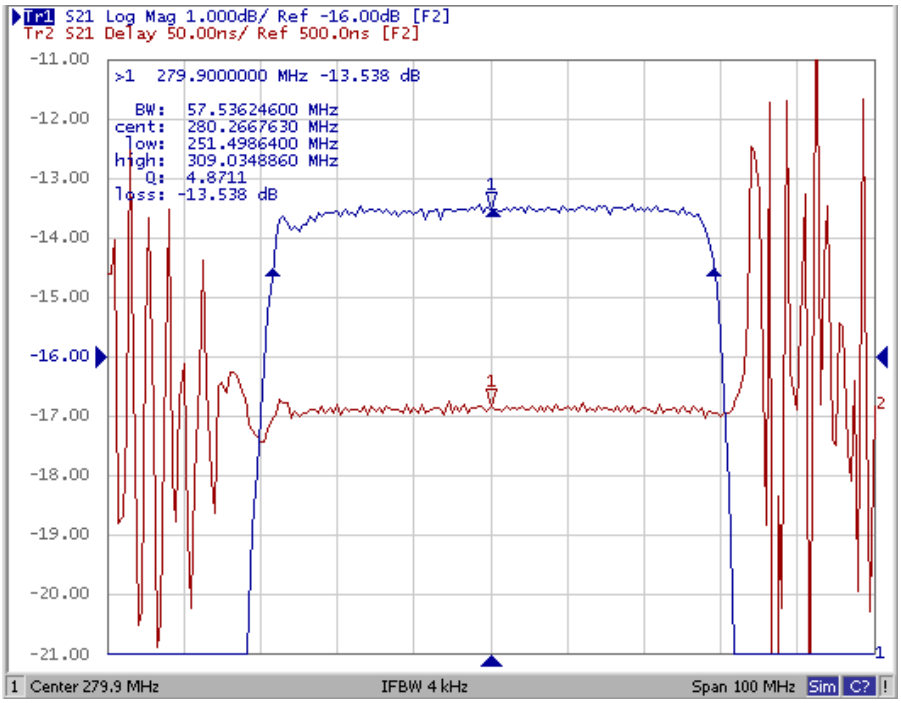

Fig. 2: Horizontal: 10MHz / Div, Vertical: 1dB / Div, Vertical: 50ns / Div

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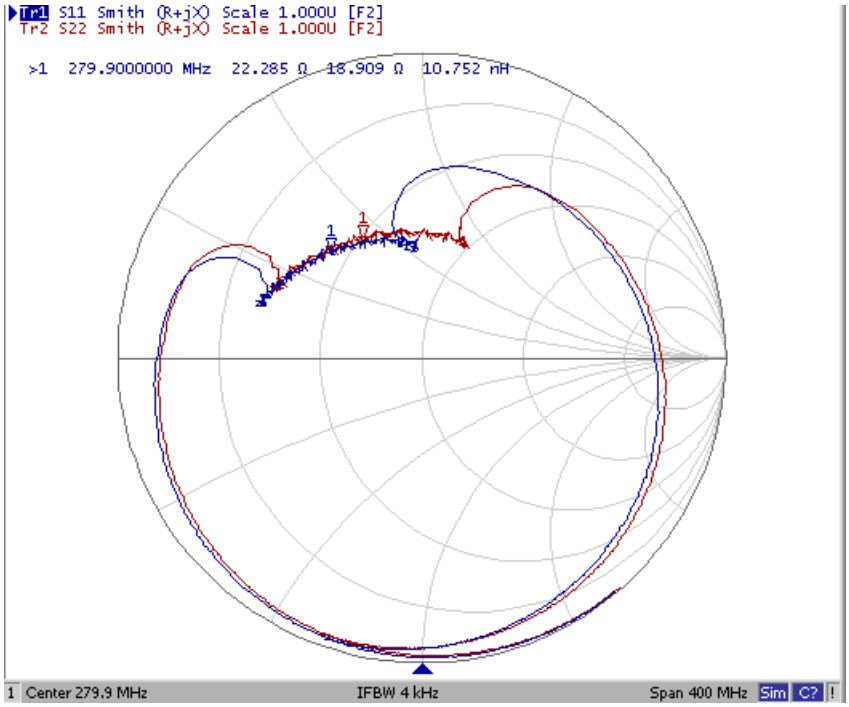
3. Smith Chart:



4. Wide Band:

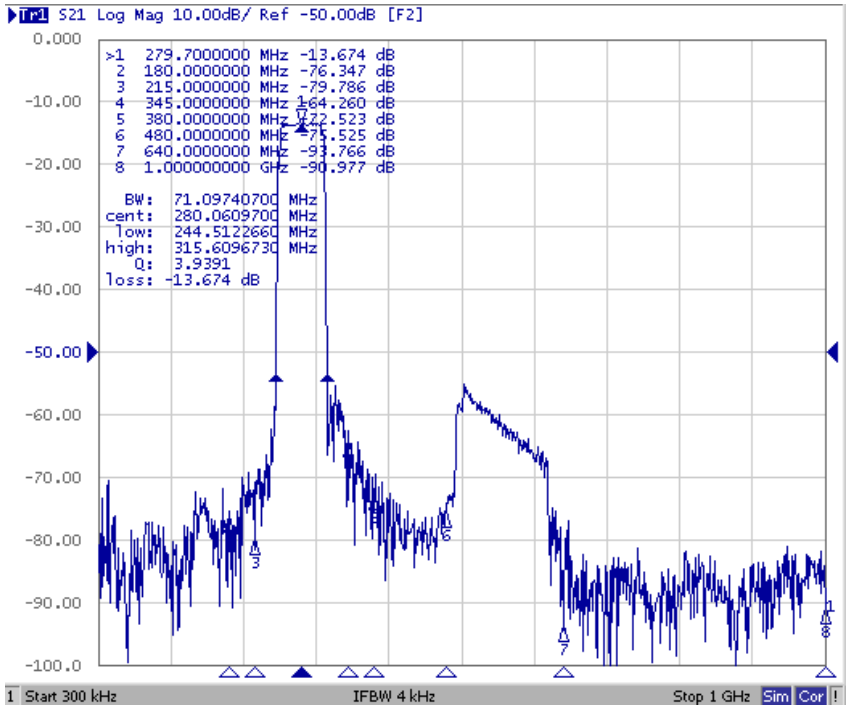


Fig. 4: Horizontal: 100MHz / Div, Vertical: 10dB / Div

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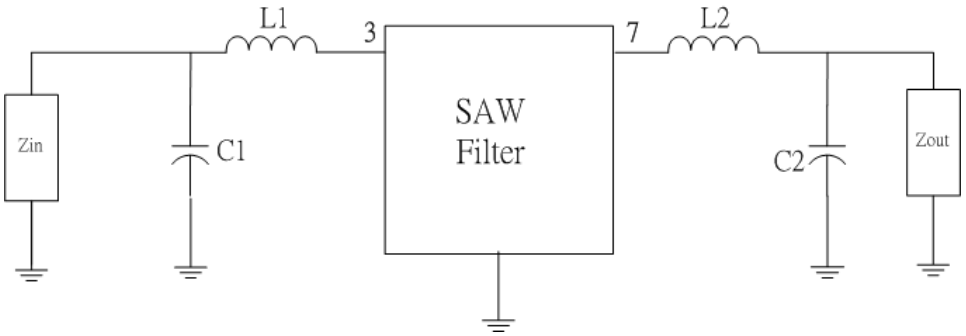
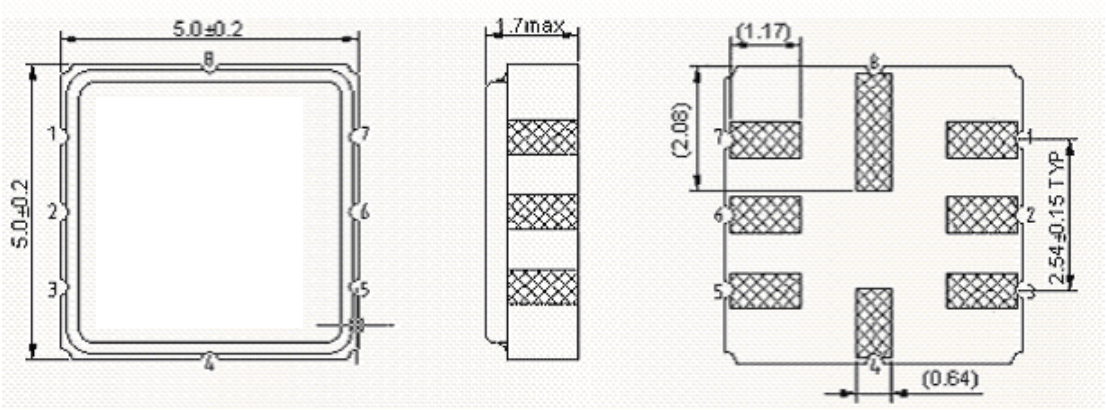
D. MATCHING CIRCUIT:



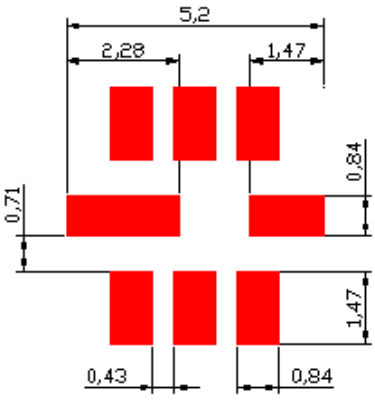
L1 = 43nH, L2 = 47nH, C1 = 8pF, C2 = 8pF

E. OUTLINE DRAWING:



3: Input
2: Input ground
7: Output
6: Output ground
1, 4, 5, 8: Ground
Unit: mm

F. PCB FOOTPRINT:



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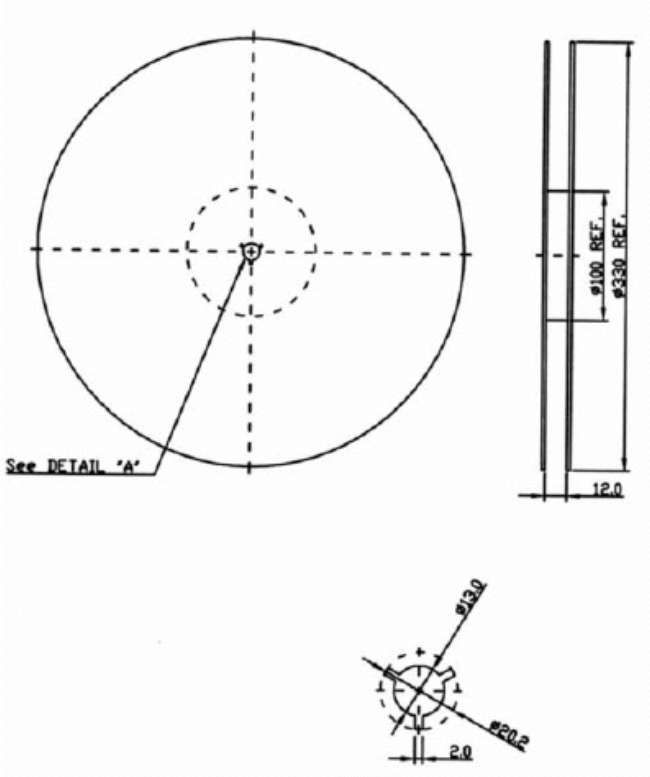
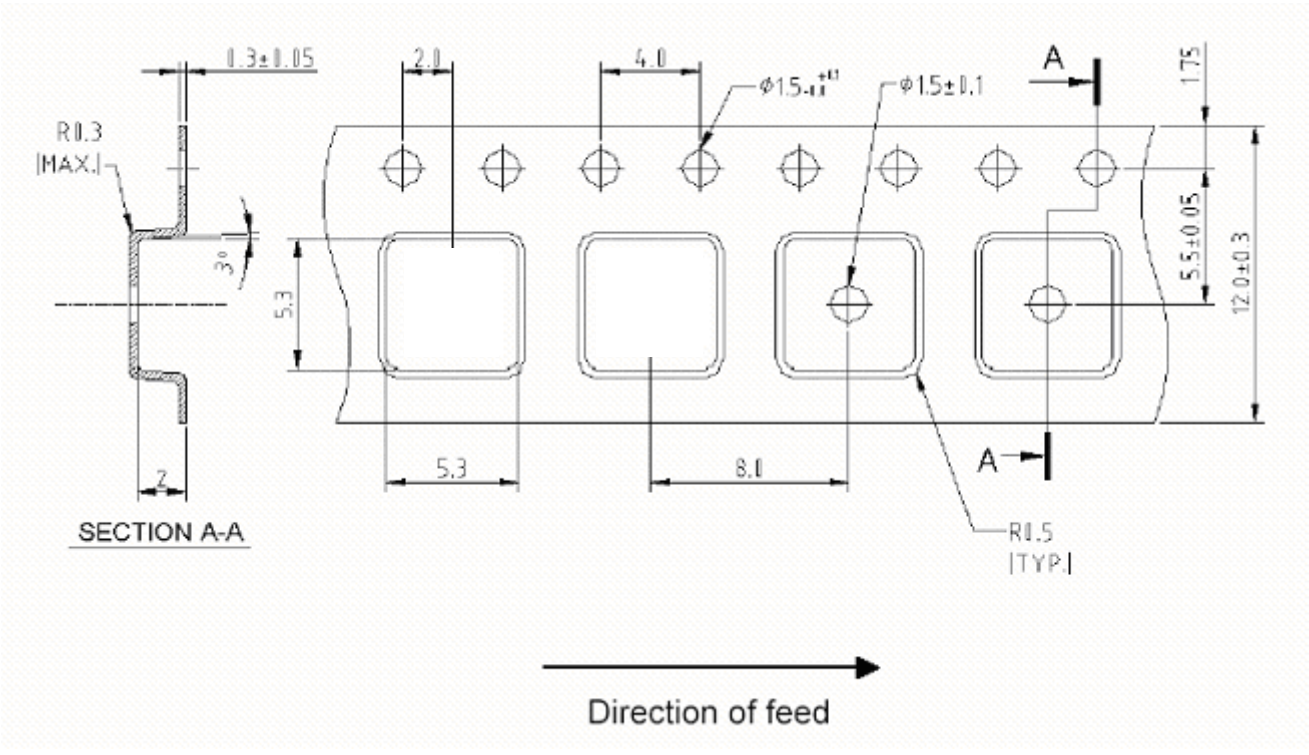
G. PACKING:

1. Reel dimension:



2. Tape dimension:



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H. RECOMMENDED REFLOW PROFILE: