

SAW Filter 340.50MHz

Model: TB0970A

Part No: MP05889

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	-	340.5	-
Insertion Loss IL	dB	-	11.7	14.0
-1dB bandwidth	MHz	55	59	-
-40dB bandwidth	MHz	-	74.5	80.0
Passband Ripple Fc ± 25MHz	dB	-	0.4	1.0
Attenuation: (Reference level from Min IL)				
DC ~ 240MHz	dB	45	55	-
240MHz ~275MHz	dB	40	50	-
405MHz ~ 440MHz	dB	40	52	-
440MHz ~ 600MHz	dB	45	58	-
600MHz ~ 760MHz	dB	35	45	-
760MHz ~ 1000MHz	dB	45	65	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

SAW Filter 340.50MHz
Part No: MP05889

Model: TB0970A
Rev No: 1

C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 400MHz)

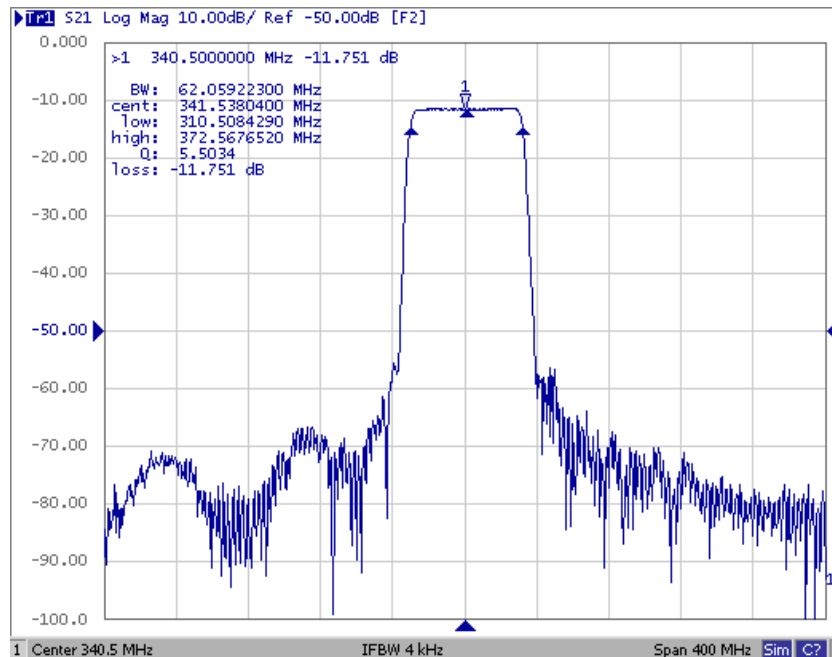


Fig. 1. Horizontal: 40MHz / Div, Vertical: 10dB / Div

2. Pass band Response and Group Time Delay response:

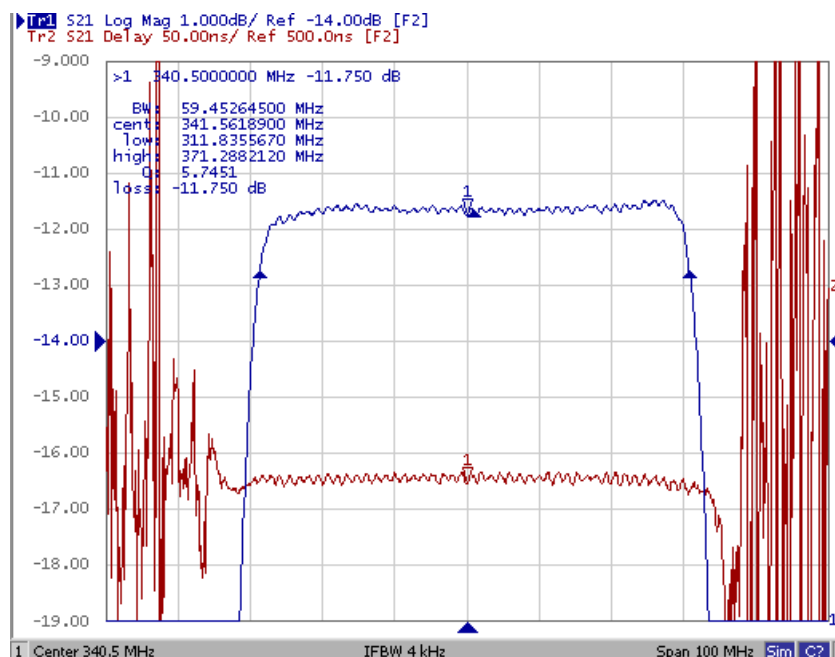
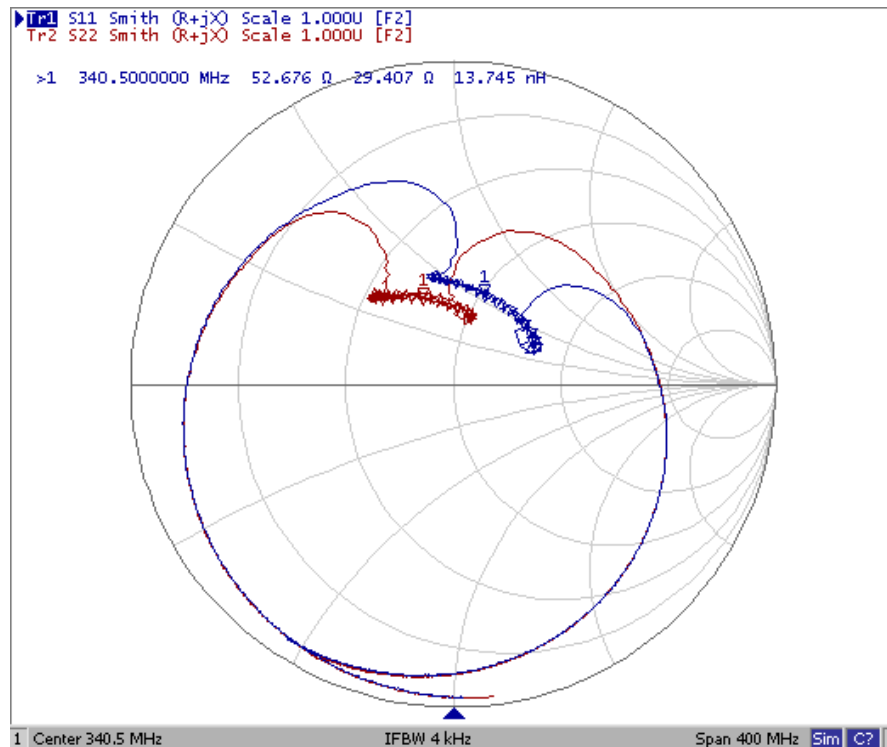


Fig. 2. Horizontal: 10MHz / Div, Vertical: 1dB / Div, Vertical: 50ns / Div

SAW Filter 340.50MHz
Part No: MP05889

Model: TB0970A
Rev No: 1

3. Smith Chart:



4. Wide Band:

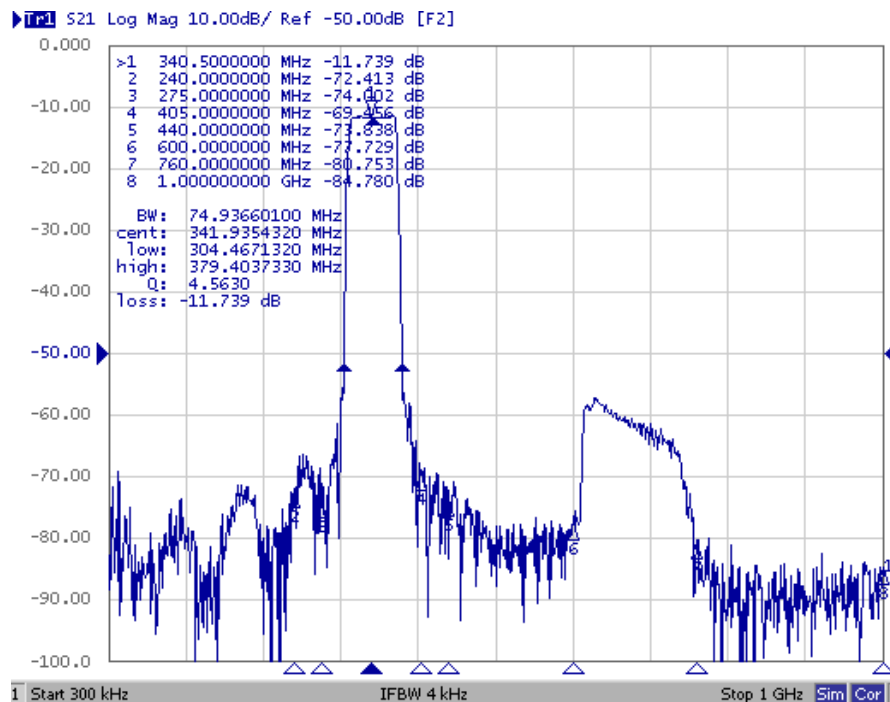


Fig. 4. Horizontal: 100MHz / Div, Vertical: 10dB / Div

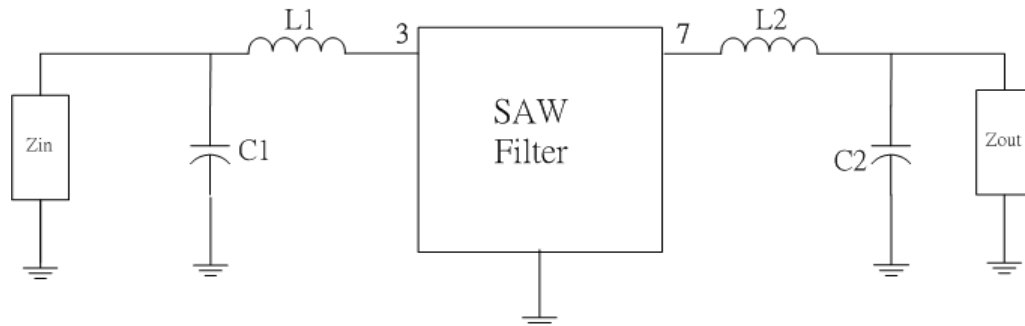
SAW Filter 340.50MHz

Model: TB0970A

Part No: MP05889

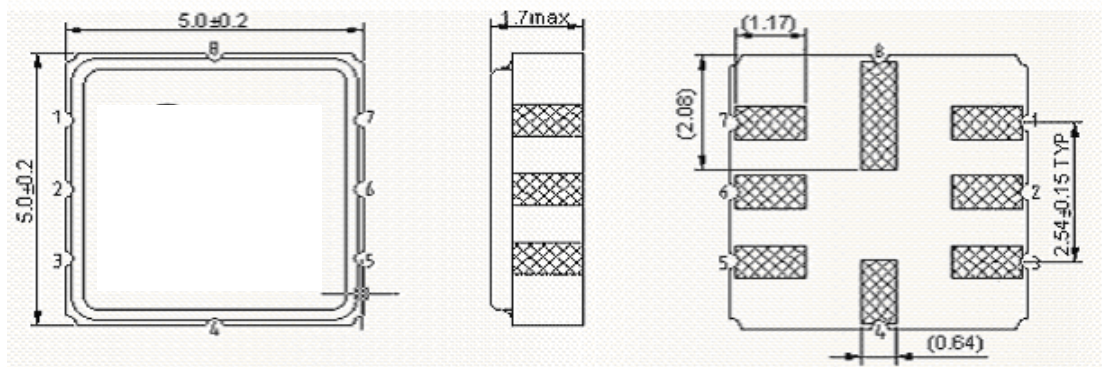
Rev No: 1

D. MATCHING CIRCUIT:



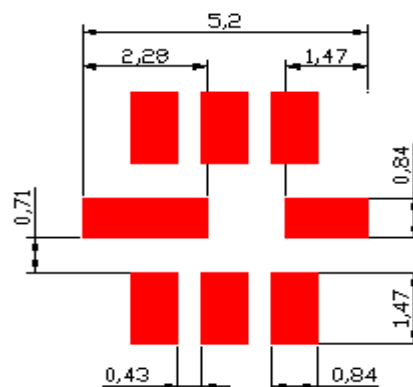
$L1 = 33n$ $L2 = 33nH$ $C1 = 8pF$ $C2 = 8pF$

E. OUTLINE DRAWING:



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

F. PCB FOOTPRINT:

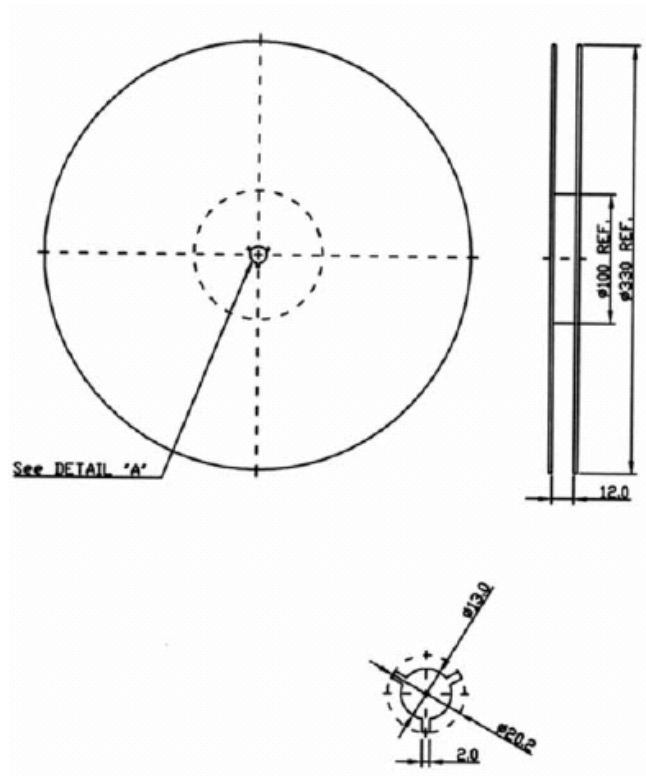


SAW Filter 340.50MHz
Part No: MP05889

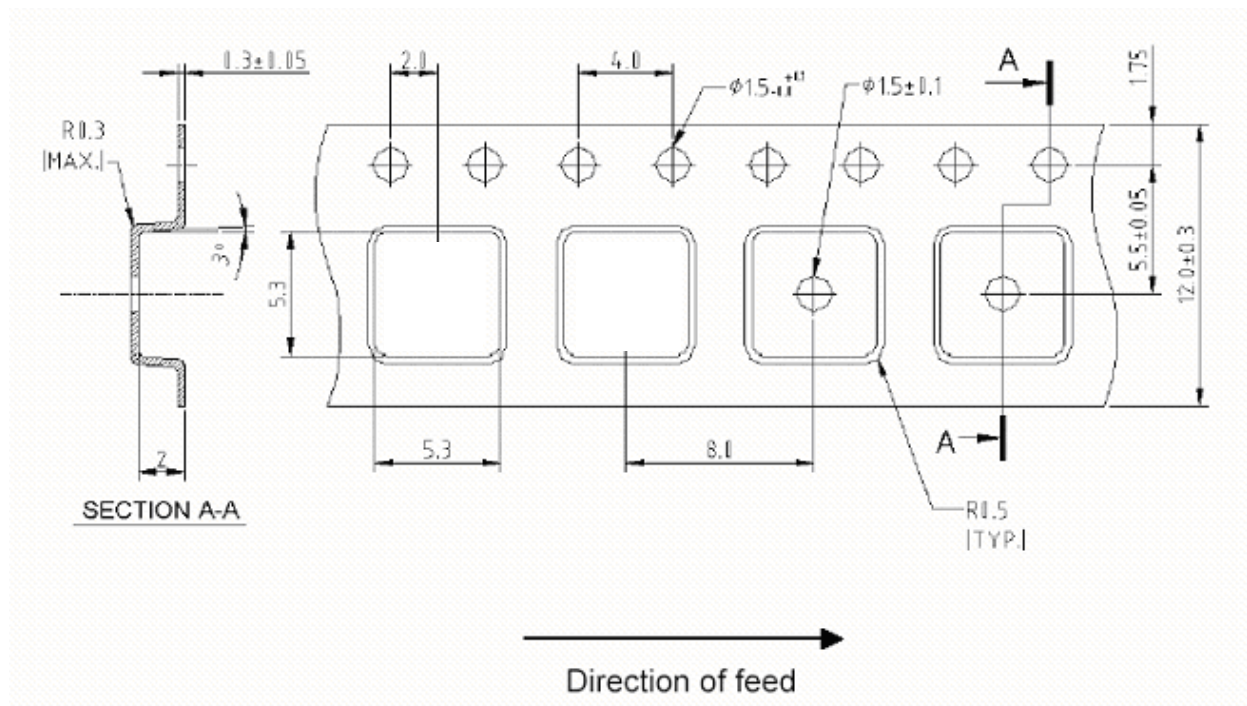
Model: TB0970A
Rev No: 1

G. PACKING:

1. Reel Dimension



2. Tape Dimension



SAW Filter 340.50MHz

Model: TB0970A

Part No: MP05889

Rev No: 1

H. RECOMMENDED REFLOW PROFILE:

