

SAW Filter 435.0MHz

Model: TB0902A

Part No: MP04368

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:

Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	435	-
Insertion Loss IL	dB	-	13.2	16.0
-3dB bandwidth	MHz	70	74	-
Passband Ripple Fc ± 30MHz	dB	-	0.4	1.0
Attenuation: (Reference level from Min IL)				
DC ~ 355MHz	dB	40	48	
515MHz ~ 700MHz	dB	40	48	
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 600MHz)

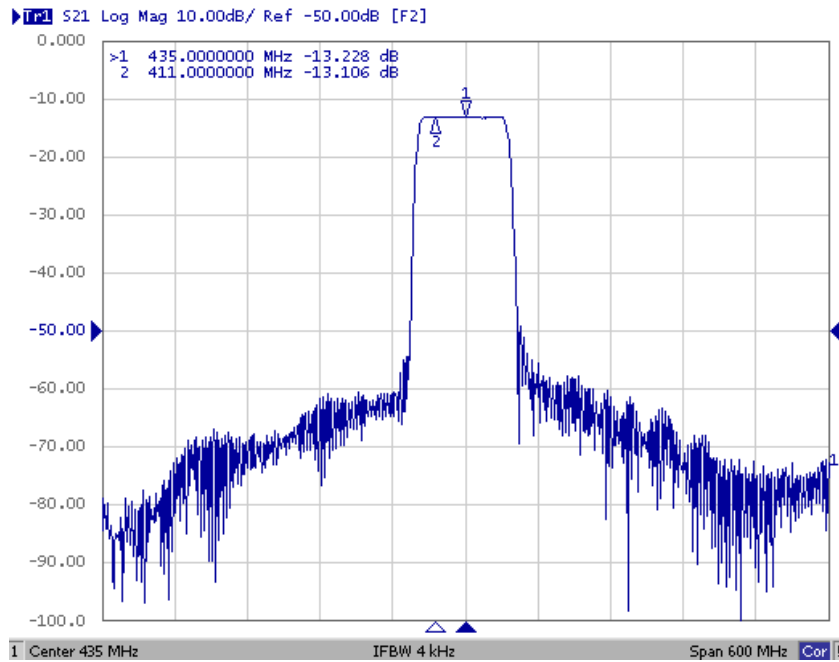


Fig. 1: Horizontal: 60MHz/Div, Vertical: 10dB/Div

2. Pass band Response and Group Time Delay response:

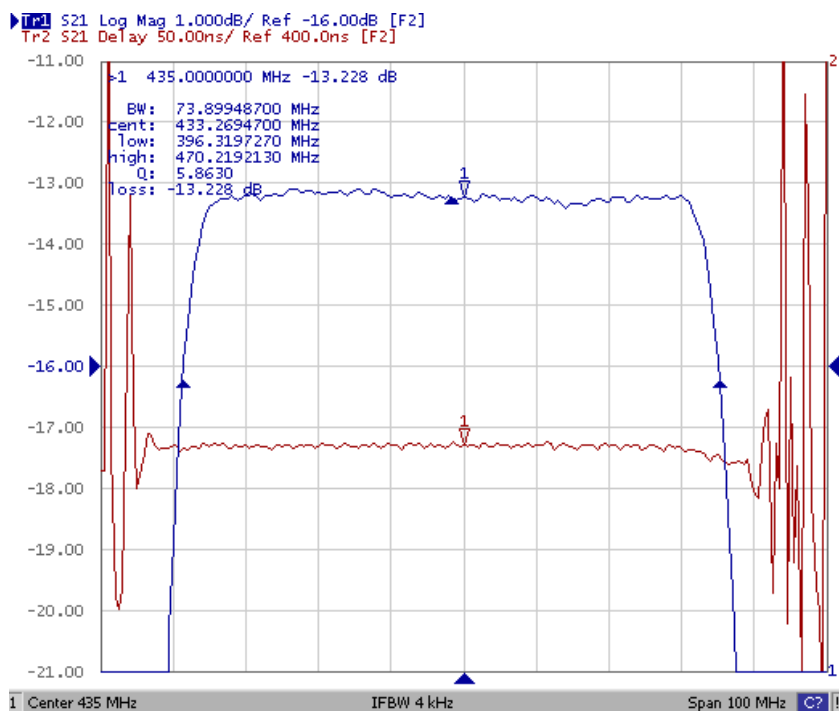
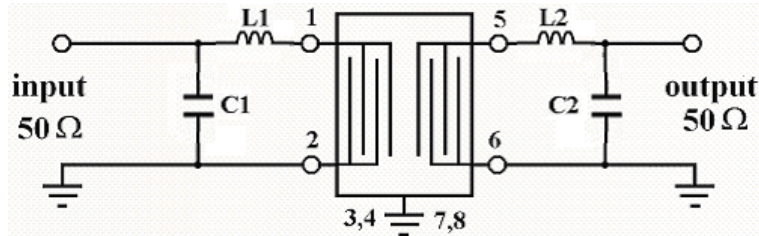


Fig. 2: Horizontal: 12MHz/Div, Vertical: 1dB/Div, Vertical: 50ns/Div

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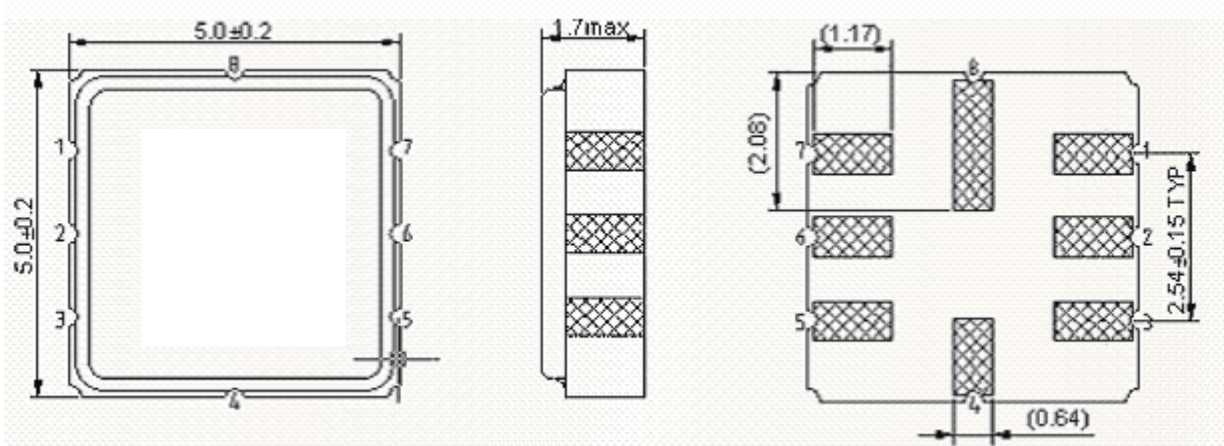
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D. MATCHING CIRCUIT:



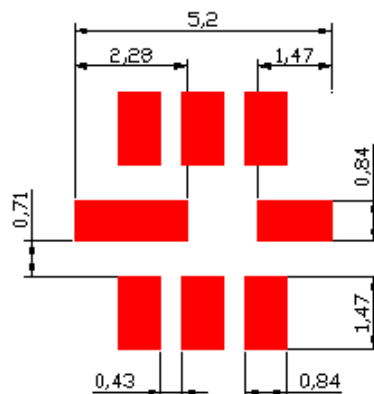
L1=22nH L2=22nH C1=4.7pF C2=2.7pF

E. OUTLINE DRAWING:



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

F. PCB FOOTPRINT:



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H. RECOMMENDED REFLOW PROFILE:

