

**SAW Filter 453.0MHz**  
**Part No: MA08247**

**Model: TB0205A**  
**Rev No: 2**

**A. MAXIMUM RATING:**

1. Input Power Level: 15dBm
2. Operating Temperature: -40°C to 85°C
3. Storage Temperature: -40°C to 85°C
4. DC Voltage: 0V

**B. ELECTRICAL CHARACTERISTICS:**

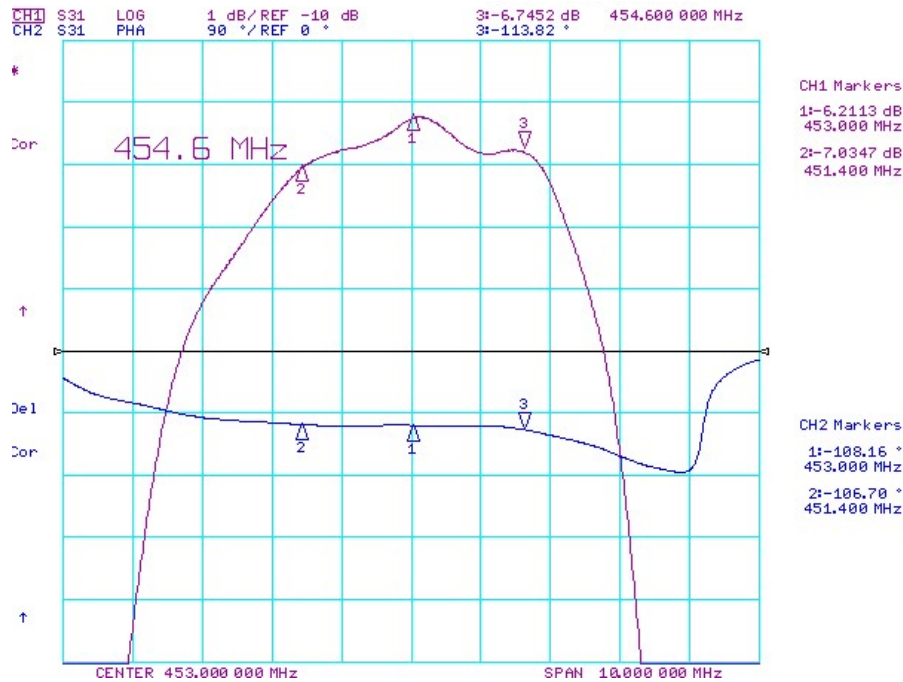
Characteristics	Min.	Typ.	Max.
Center frequency $F_C$ (MHz)	452.3	452.7	453.7
3dB Bandwidth (MHz)	5	5.6	-
10dB Bandwidth (MHz)	-	7.5	8.6
20dB Bandwidth (MHz)	-	8.8	16
Minimum insertion loss (dB)	-	6	7
Ripple at 451.4 ~ 454.6MHz (P-PdB)	-	0.7	1
Phase linearity at 451.4 MHz ~ 454.6MHz (P-P°)		3.5	6
Group delay ripple at 451.4 MHz ~ 454.6MHz (P-PnS)	-	50	100
Absolute Group Delay at 451.4 MHz~454.6 MHz (nS)		300	1000
Return Loss (Input and Output) (dB)	8	9	-
Triple Transit Suppression (dB)	35	40	-
Attenuation: (Reference level from Minimum IL)			
415MHz ~ 437MHz (dB)	30	40	
437MHz ~ 447MHz (dB)	20	30	
459MHz ~ 469MHz (dB)	20	25	
469MHz ~ 485MHz (dB)	30	35	

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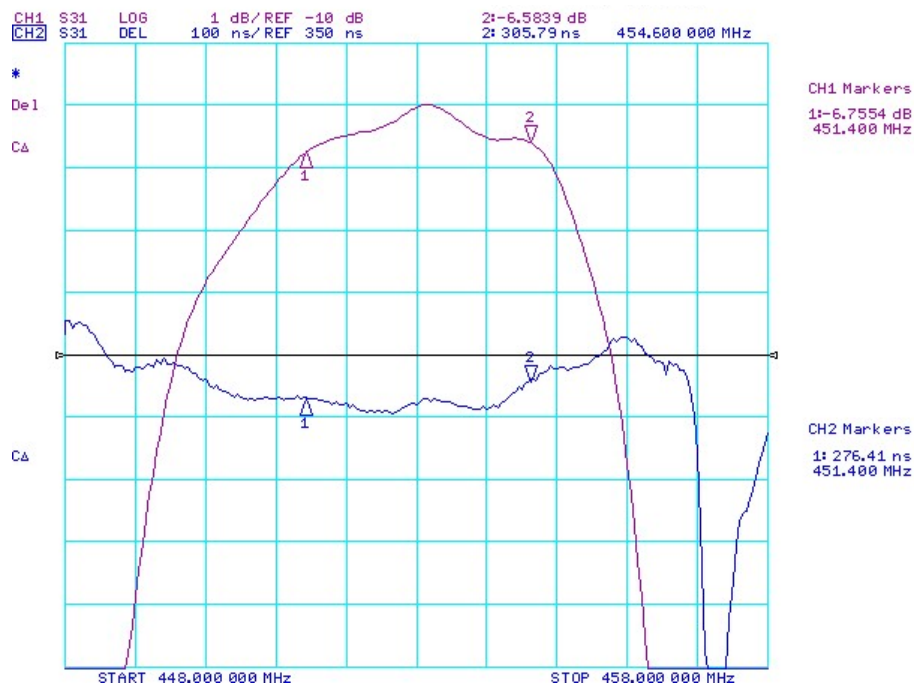
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**C. FREQUENCY CHARACTERISTICS:**

1. Passband of Response:



Phase linearity, Horizontal: 1MHz/Div, Vertical 1: 1dB/Div, Vertical 2: 90 degree/Div

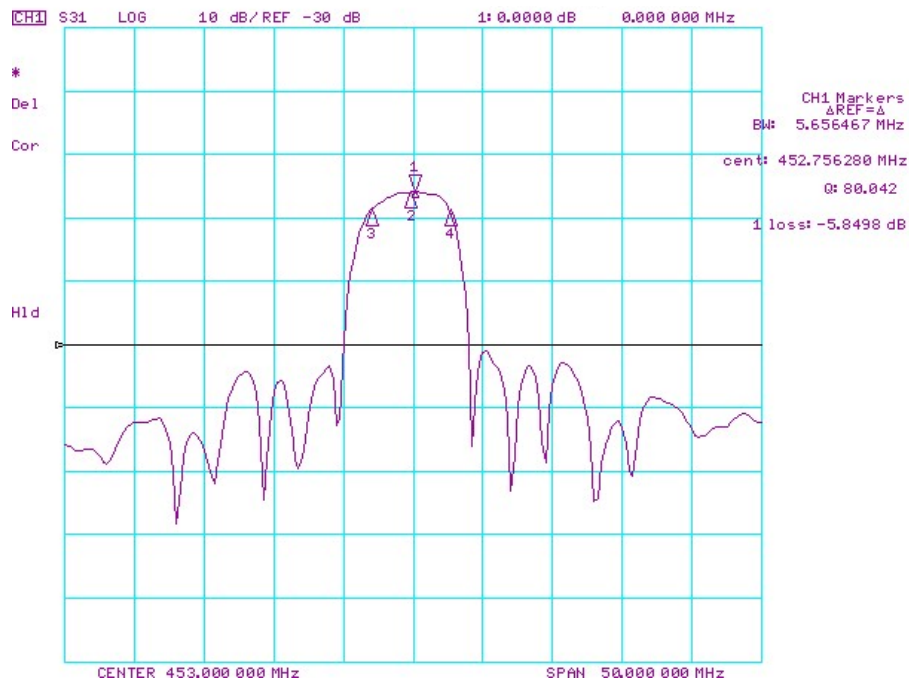


Group Delay and Ripple, Horizontal: 1MHz/Div, Vertical 1: 1dB/Div, Vertical 2: 100nS/Div

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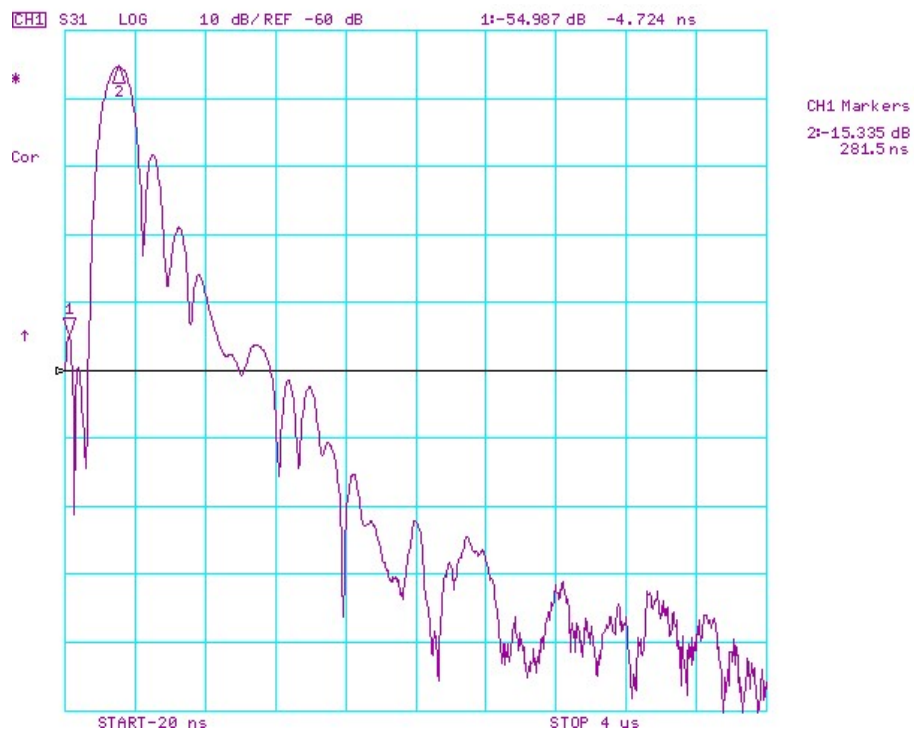
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2. Wide band response:



Horizontal: 5MHz/Div, Vertical: 10dB/Div, Reference: -30dB

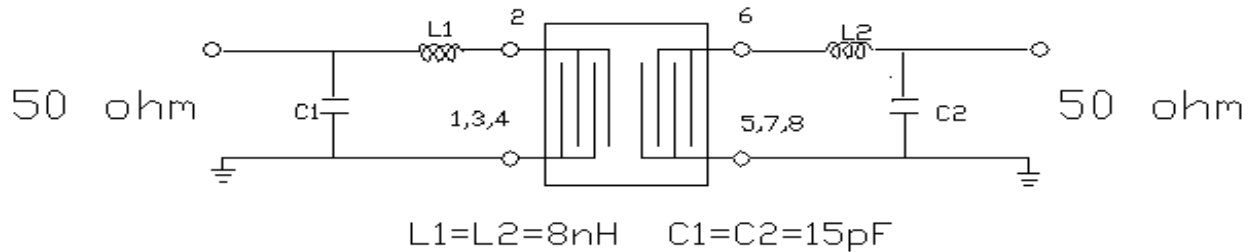
3. Triple Transit Suppression:



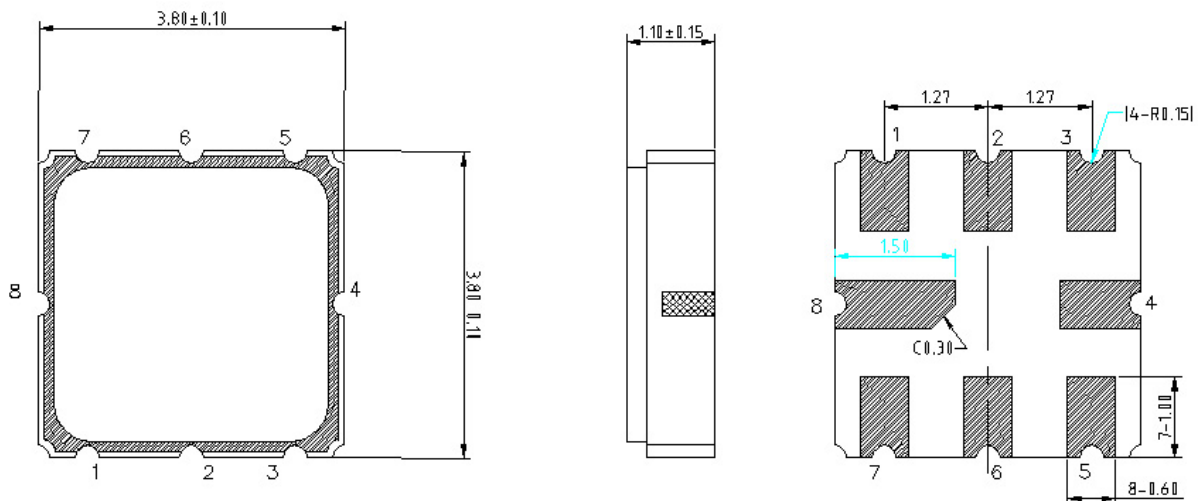
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**D. MEASUREMENT CIRCUIT:**

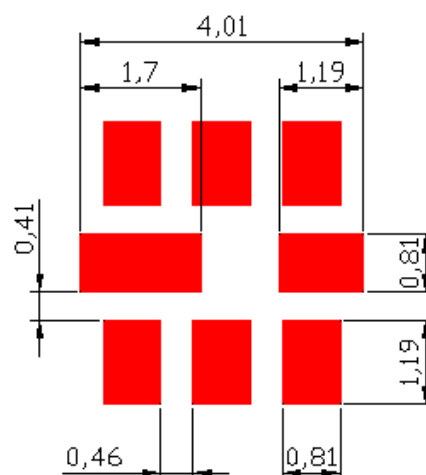


**E. OUTLINE DRAWING:**



Pin 2 : RF input  
 Pin 6 : RF output  
 Pin 1, 3, 4, 5, 7, 8 : To be Ground

**F. PCB FOOTPRINT:**

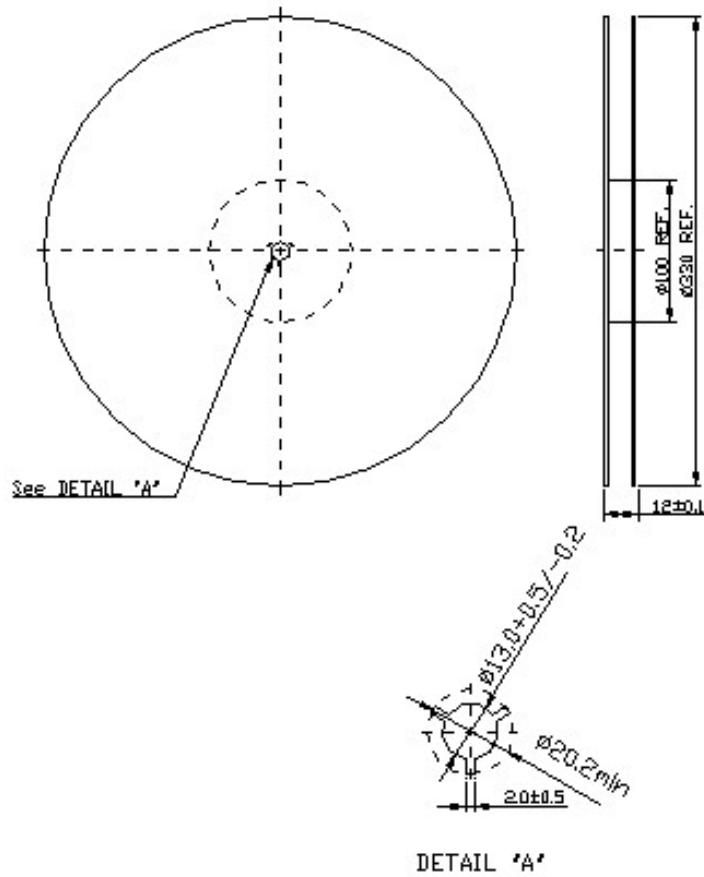


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**G. PACKING:**

1. Reel Dimension



2. Tape Dimension

