

IF SAW Filter 43.750 MHz
Part No: MA05019

Model: TB0207A
REV. NO.: 1

A. FEATURES:

1. IF Filter for Digital Cable TV

B. MAXIMUM RATING:

- 2. DC voltage: 12 V.
- 3. Storage Temperature: -40°C to +85 °C.
- 4. Operating Temperature: -25 °C to +65 °C

C. ELECTRICAL CHARACTERISTICS:

Characteristic	Units	Minimum	Typical	Maximum
Center frequency, F_o	MHz	-	43.75	-
Insertion Loss, IL	dB	-	11.6	16
Bandwidth -3dB	MHz		6.225	
Bandwidth -30dB	MHz		7.652	
Relative attenuation				
39.75MHz(F_o -4MHz)	dB	36	39	
47.75MHz(F_o +4MHz)	dB	37	39	
Group Delay Ripple (p-p)	nS		45	
Lower Sidelobe (35.00~39MHz)	dB	40	43	
Lower Sidelobe (39.00~39.75MHz)	dB	34	39	
Upper Sidelobe (47.75~50MHz)	dB	34	38	
Upper Sidelobe (50.00~55MHz)	dB	34	36	
Temp.coeff.	ppm/K		-72	

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D. FREQUENCY CHARACTERISTICS:

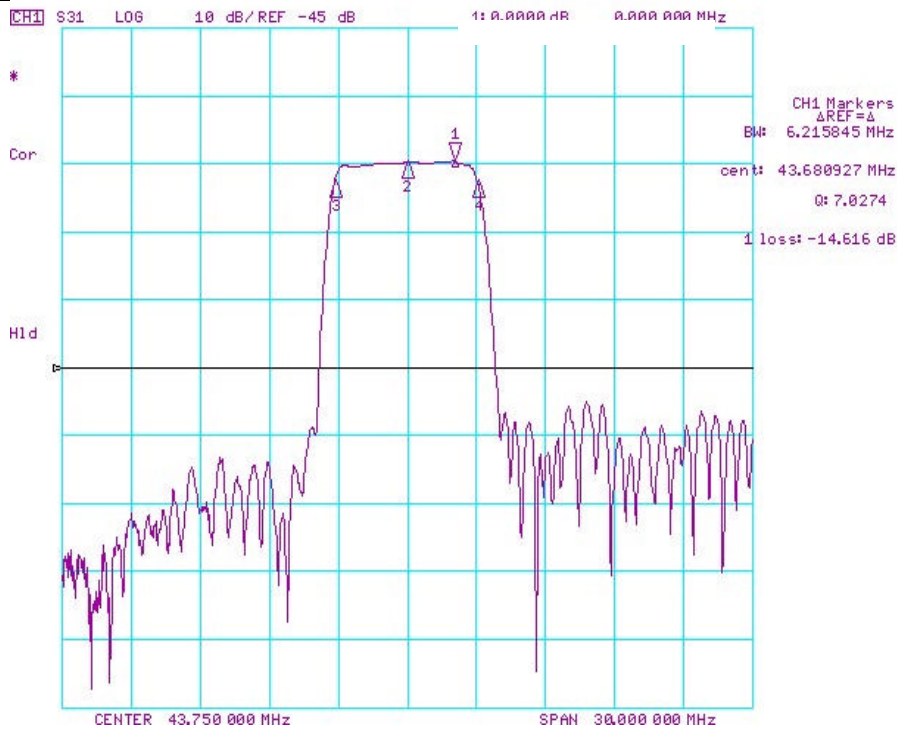


Figure-1 S21 Response(Wide Band/Span=30MHz)

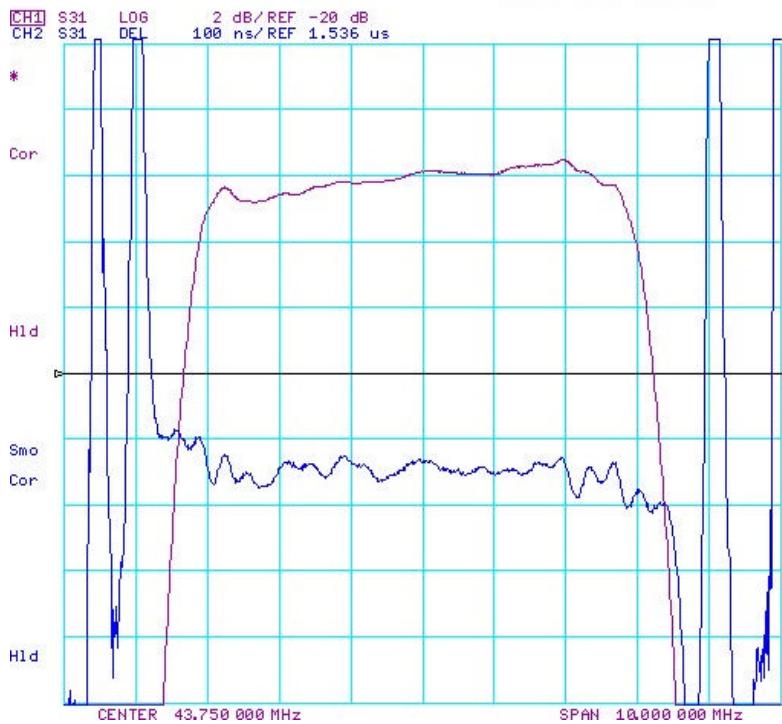


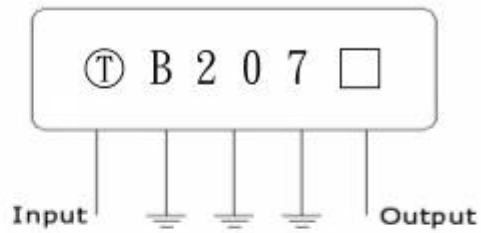
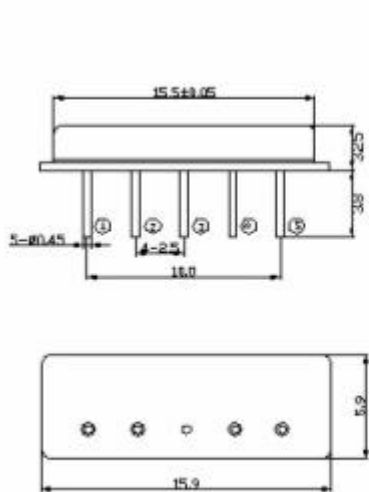
Figure-2 Group Delay and S21 Response
 Horizontal: 1MHz/Div
 Vertical: 1 dB/Div Vertical: 50nS/Div

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E.OUTLINE DRAWING:

- Pin 1: Input
- Pin 2: Input/GND
- Pin 3: GND
- Pin 4: Output/GND
- Pin 5: Output
- ? : Date Code



Source Impedance = 50 Ω
Load Impedance = 2 k Ω / 3pF

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F. TEST CIRCUIT

