

- 43.5 MHz IF SAW Filter
- Revision 0 : 22 October 2012

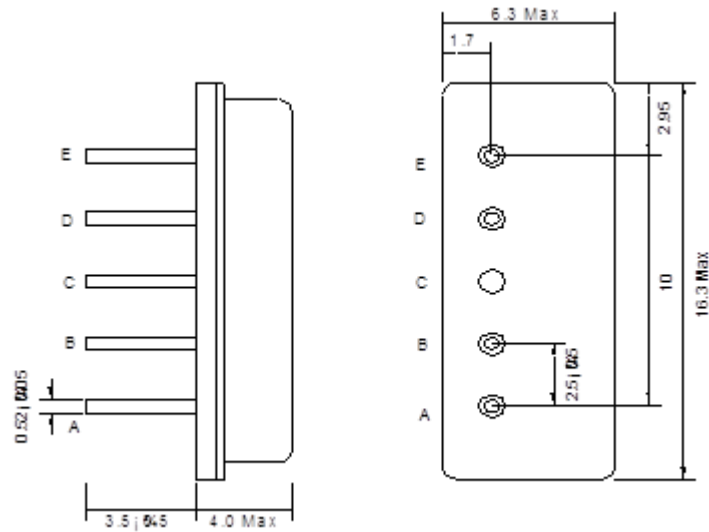
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance	Ω	-	50	-
Load Impedance	Ω	-	50	-
Package type & size	B1			
Length x Width	mm <sup>2</sup>	-	16.3 x 6.3	-
Height	mm	-	-	4.0

ELECTRICAL SPECIFICATION					
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM	
Reference Level Frequency (Fo)	MHz	-	43.5	-	
Insertion Loss at Fo	dB	-	23.5	26.0	
Group Delay Variation	nsec	-	80	-	
PassBand Ripple Variation	dB	-	0.6	1.0	
Relative Attenuation					
Picture carrier	45.75MHz	dB	-1.3	-0.3	0.7
	46.50MHz	dB	0.6	1.4	2.6
Sound carrier	41.25MHz	dB	-1.2	0.4	0.8
Adjacent picture carrier	39.75MHz	dB	30.0	38.0	-
Adjacent sound carrier	47.25MHz	dB	30.0	38.0	-
Lower sidelobe	35.00~ 39.25MHz	dB	30.0	36.0	-
Upper sidelobe	47.75~ 55.00MHz	dB	30.0	31.5	-
Reflected wave signal suppression(2.0~6.0 us aftermain)		dB	40	48	
Feedthrough signal suppression(2.0~6.0 us aftermain)		dB		43	
Temperature Coefficient		ppm/K	-	-72	-

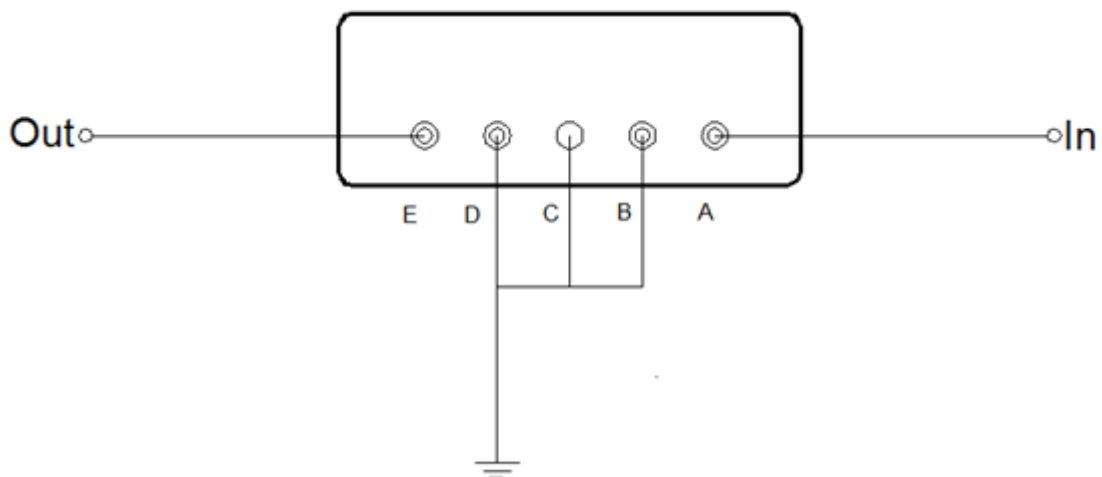
**Notes :** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).  
Those impedances could be modified with different impedance values and/or structures, if necessary.

## Package Dimensions



Pin Description	
B, C, D	Ground
A	Input
E	Output

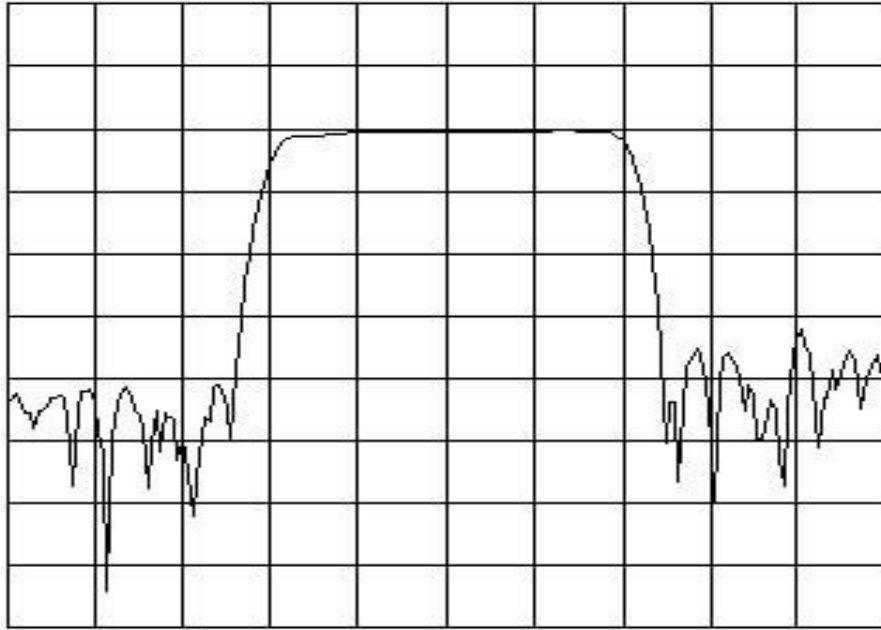
## Testing Environment



Nominal Source Impedance = 50  $\Omega$   
 Nominal Load Impedance = 50  $\Omega$

## Frequency Characteristics

Frequency Response



Horizontal: 1.5 MHz/Div  
Vertical: 10 dB/Div



Horizontal: 0.8 MHz/Div  
Vertical: 1 dB/Div  
Vertical: 100 ns/Div

**Smith Chart**

