

456 MHz / 4MHz BW SAW Filter

162195

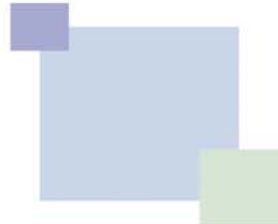
SAW PRODUCTS

- Designed for 802.16 Applications
- Balanced Input / Output (200Ω)

Parameter	Unit	Performance ¹
Centre Frequency, Fo	MHz	456
1 dB Passband Bandwidth	MHz	> 3.5
3 dB Bandwidth	MHz	> 4.0
40 dB Bandwidth	MHz	< 6.5
Insertion Loss over passband	dB	< 11
Return Loss over passband	dB	> 7
Absolute Group Delay	μs	< 1
Group Delay Ripple, Fo±1.7MHz	ns	< 200
Rejection, min. at:		
DC to 256 MHz		> 35
256 MHz to 360MHz		> 40
360 MHz to 416MHz		> 50
416MHz to 451.5MHz		> 40
451.5MHz to 452.65MHz		> 40
459.35MHz to 464MHz		> 35
464MHz to 656MHz		> 40
656MHz to 946MHz		> 30
Operating Temperature Range	°C	-40 to +85
Input/Output Differential Impedance, Line to line	Ω	200
Input Power Level (max)	dBm	> 15
Package	mm	7 x 5 x 1.6

1. With external input and output matching circuits

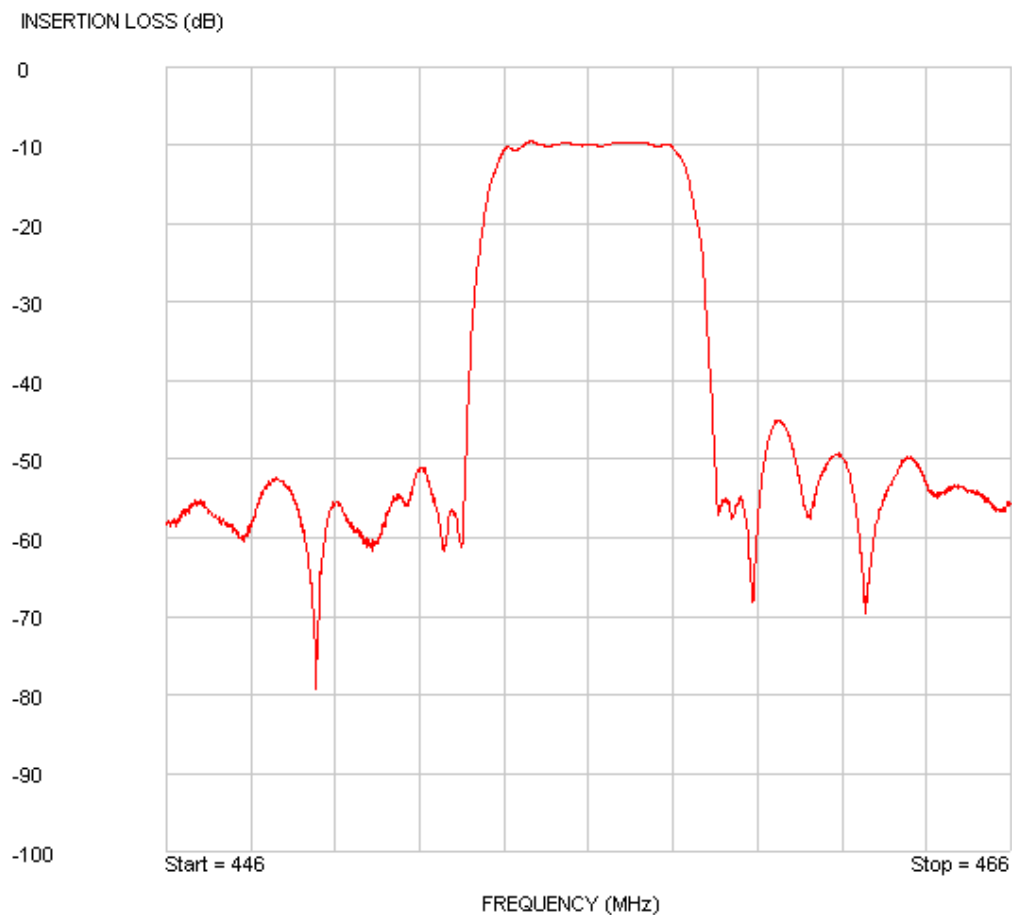
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Typical Amplitude Frequency Response



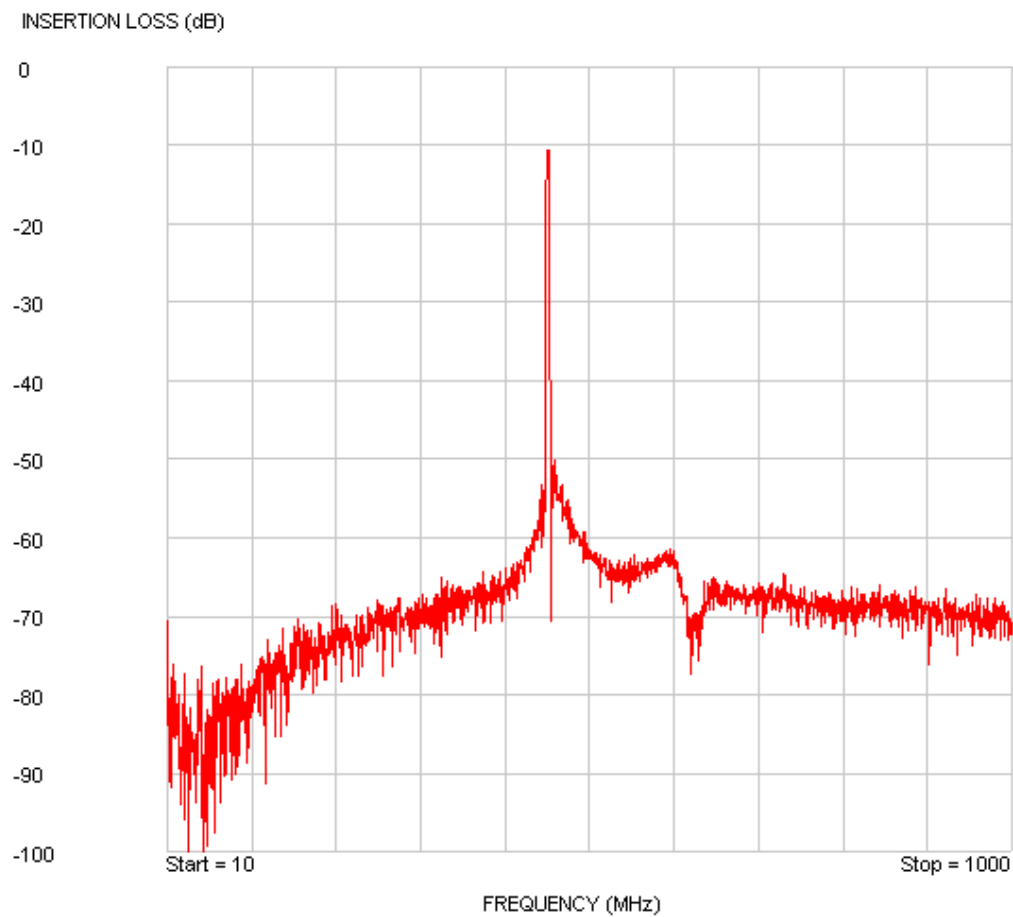
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Typical Amplitude Frequency Response – wideband

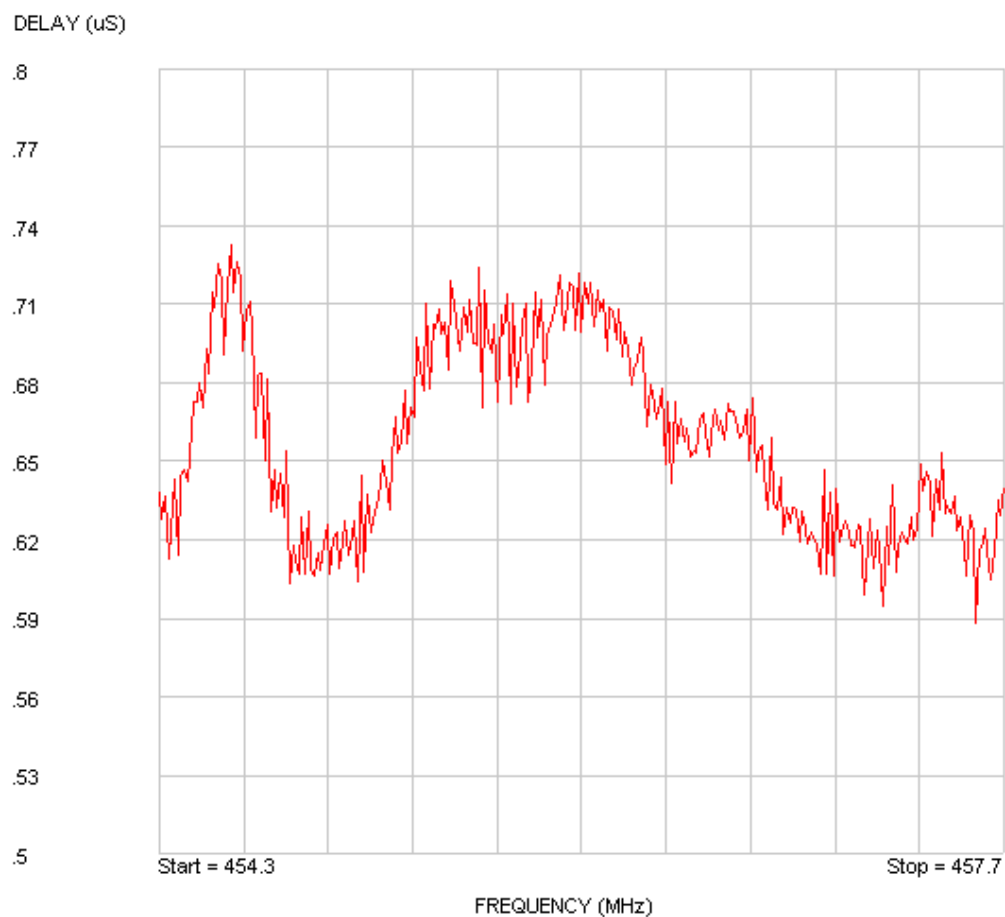




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Typical Group Delay Response

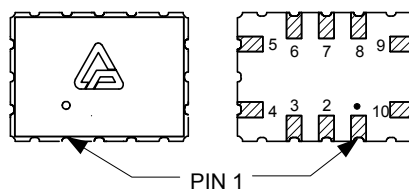
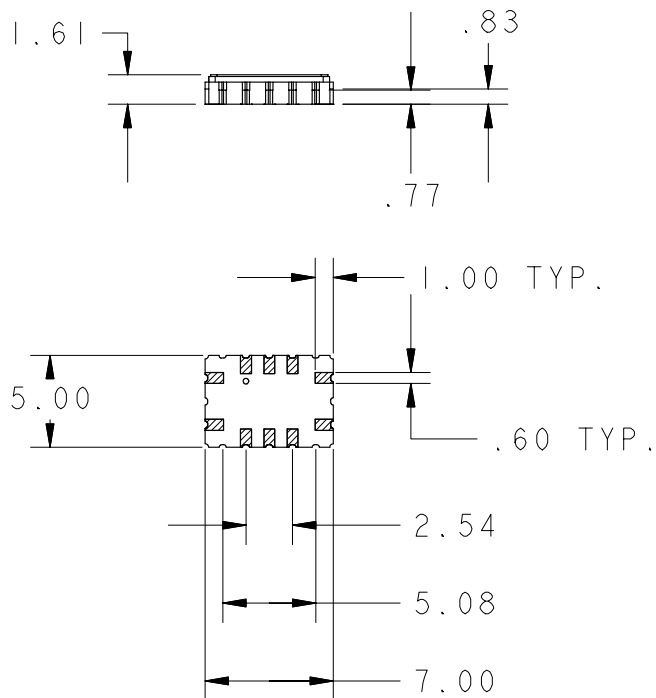


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Package O/L and Connections

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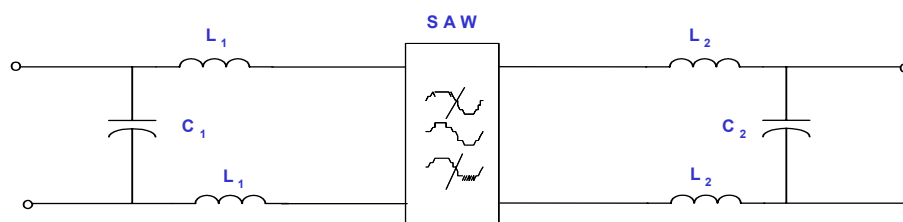


Pin	
9, 10	RF Input +, RF Input -
4, 5	RF Output +, RF Output -
1,2,3,6,7,8	Case Ground

Matching Network

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Matching components may change on customer PCB.

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<u>Input</u>	<u>Output</u>
$R_s = 200 \ \Omega$	$R_l = 200 \ \Omega$
$L_1 = 23\text{nH}$	$L_2 = 22\text{nH}$
$C_1 = 8.2\text{pF}$	$C_2 = 8.2\text{pF}$