

456 MHz / 15MHz BW SAW Filter

163008

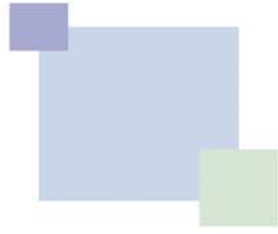
SAW PRODUCTS

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

Parameter	Unit	Performance ¹
Centre Frequency, Fo	MHz	456
1 dB Passband Bandwidth	MHz	> 14.4
3 dB Bandwidth	MHz	> 15
Insertion Loss over passband	dB	< 14
Return Loss over passband	dB	> 7
Absolute Group Delay	μs	< 1
Group Delay Ripple, Fo±7.2 MHz	ns	< 200
Rejection, min. at:		
DC to 256 MHz		> 30
256 MHz to 352MHz		> 40
352 MHz to 419.5MHz	dB	> 45
419.5MHz to 443MHz		> 40
469MHz 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	> 13
Package	mm	5 x 5 x 1.6

1. With external input and output matching circuits

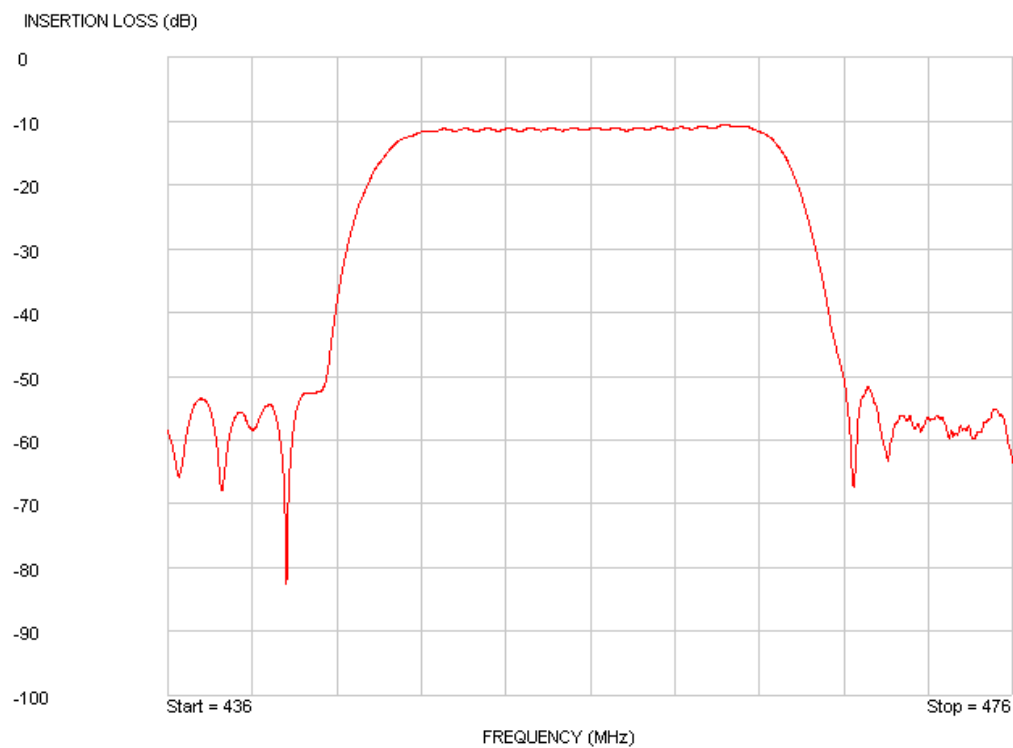
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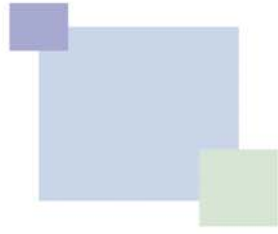
COM DEV

SAW PRODUCTS

Typical Amplitude Frequency Response



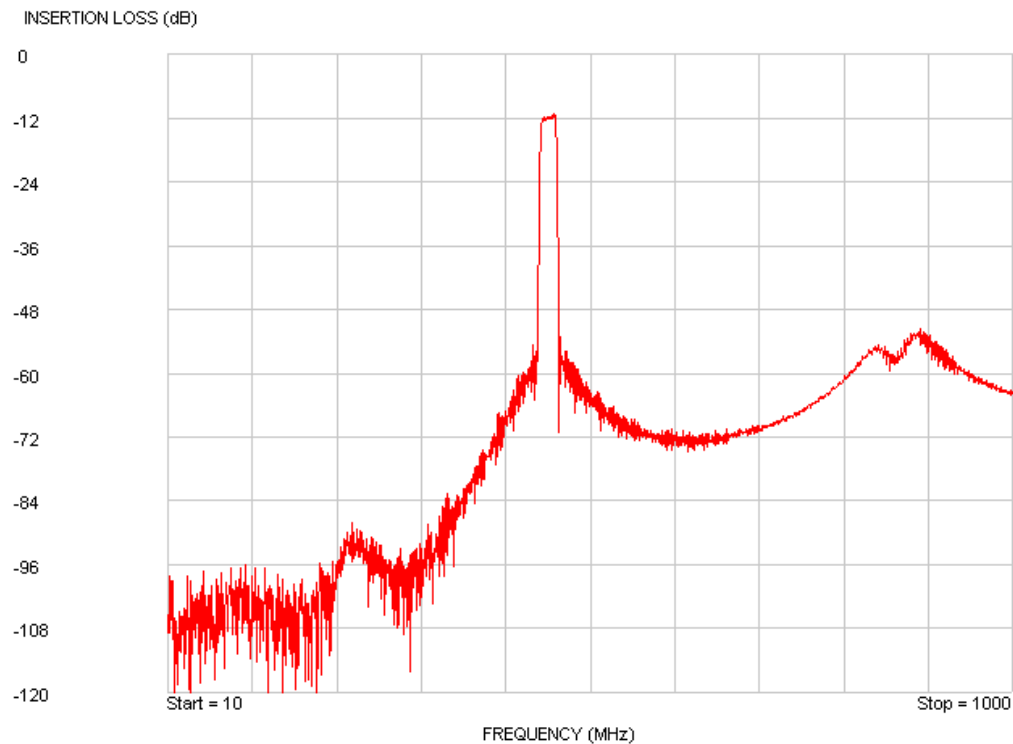
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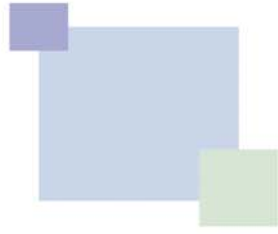
COM DEV

SAW PRODUCTS

Typical Amplitude Frequency Response – wideband

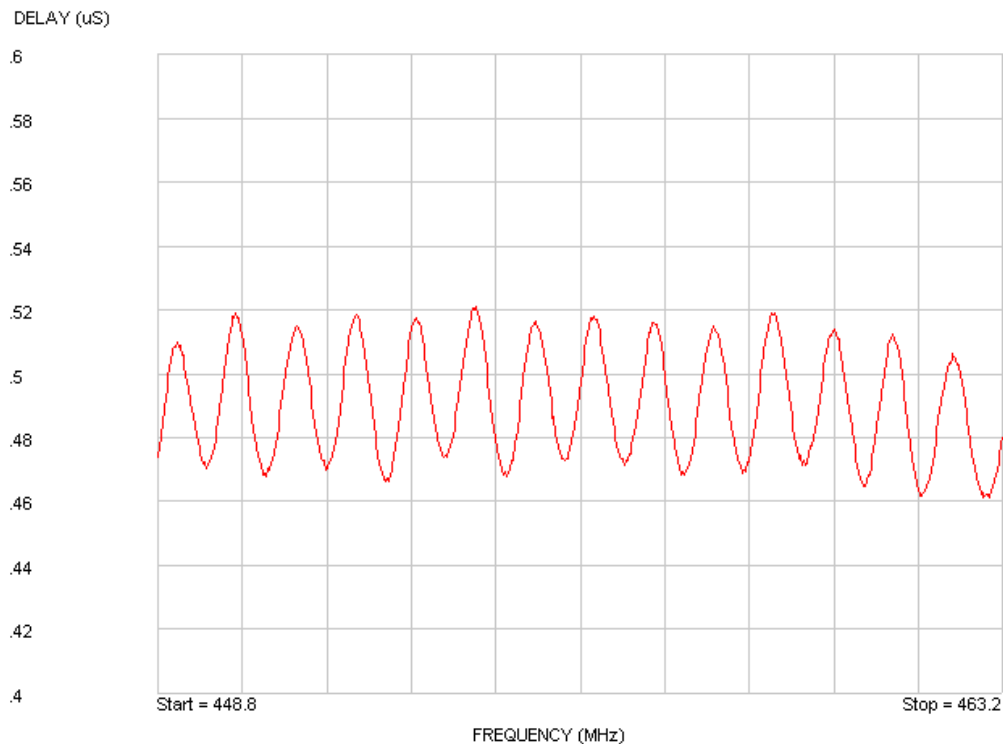


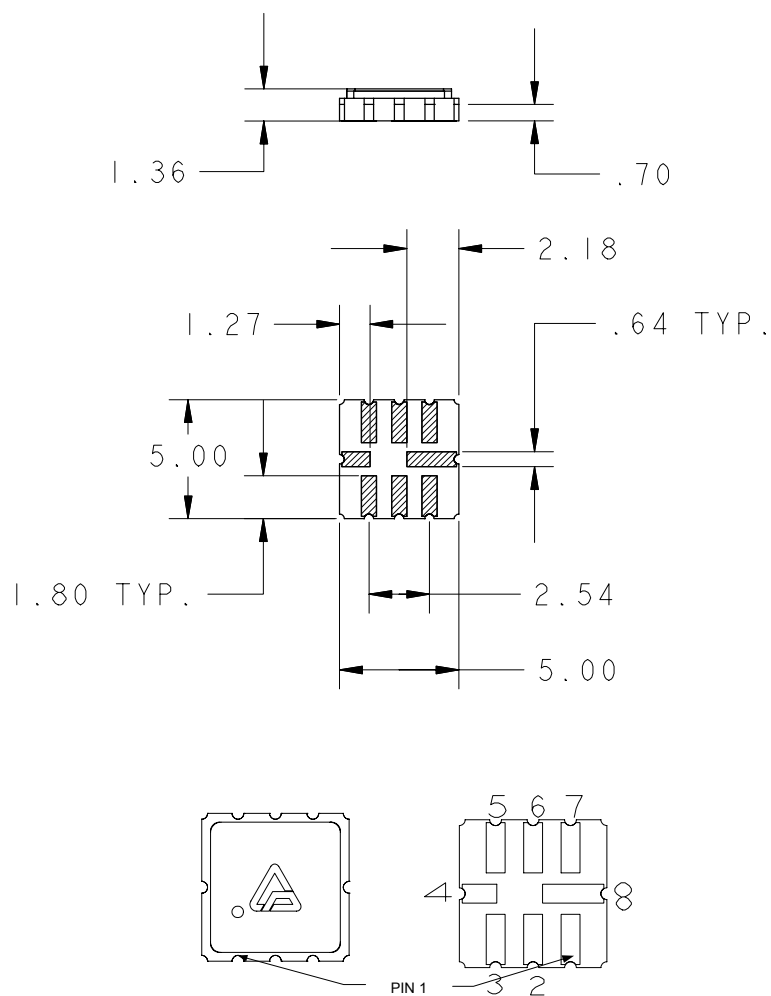
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Typical Group Delay Response



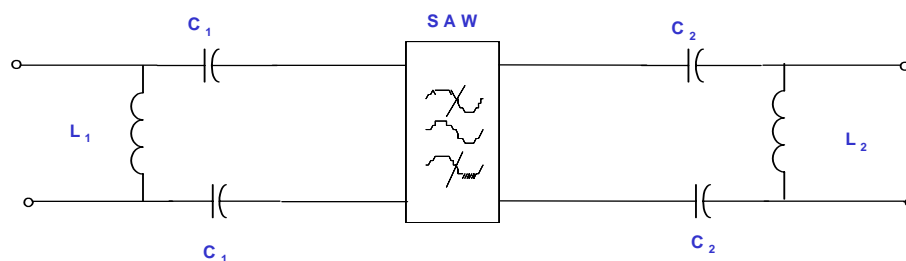


Pin	
6, 7	RF Input +, RF Input -
3, 2	RF Output +, RF Output -
1,4,5,8	Case Ground

Matching Network

163008

SAW PRODUCTS



Matching components may change on customer PCB.

<u>Input</u>	<u>Output</u>
$R_s = 200 \Omega$	$R_l = 200 \Omega$
$L_1 = 12\text{nH}$	$L_2 = 12\text{nH}$
$C_1 = 27\text{pF}$	$C_2 = 27\text{pF}$