



Total Solution Provider in Saw Device

SA18405AV

184.0 MHz IF SAW Filter
5.7 MHz Bandwidth
Revision 0: 19. MAR. 2008



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

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□ Electrical Characteristics

Maximum Ratings

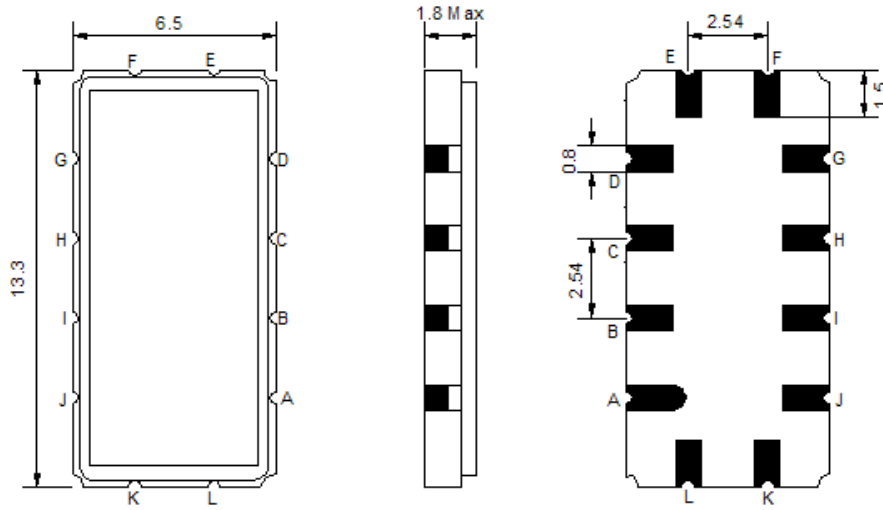
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	0		70
Storage Temperature Range	°C	-45	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	V			
Length x Width	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	184.00	-
Insertion Loss at Fo	dB	-	23.5	25.0
Group Delay Variation (Fo±2.5MHz)	ns	-	45	100
Absolute Delay	us	-	1.75	-
Passband Ripple (Fo±2.5MHz)	dB	-	0.25	0.80
Bandwidth at -1dB	MHz	5.00	5.65	-
Bandwidth at -3dB	MHz	-	6.00	-
Bandwidth at -40dB	MHz	-	7.40	-
Ultimate Rejection	dB	40	45	-
Relative Attenuation Fo±4MHz	dB	-	45	-

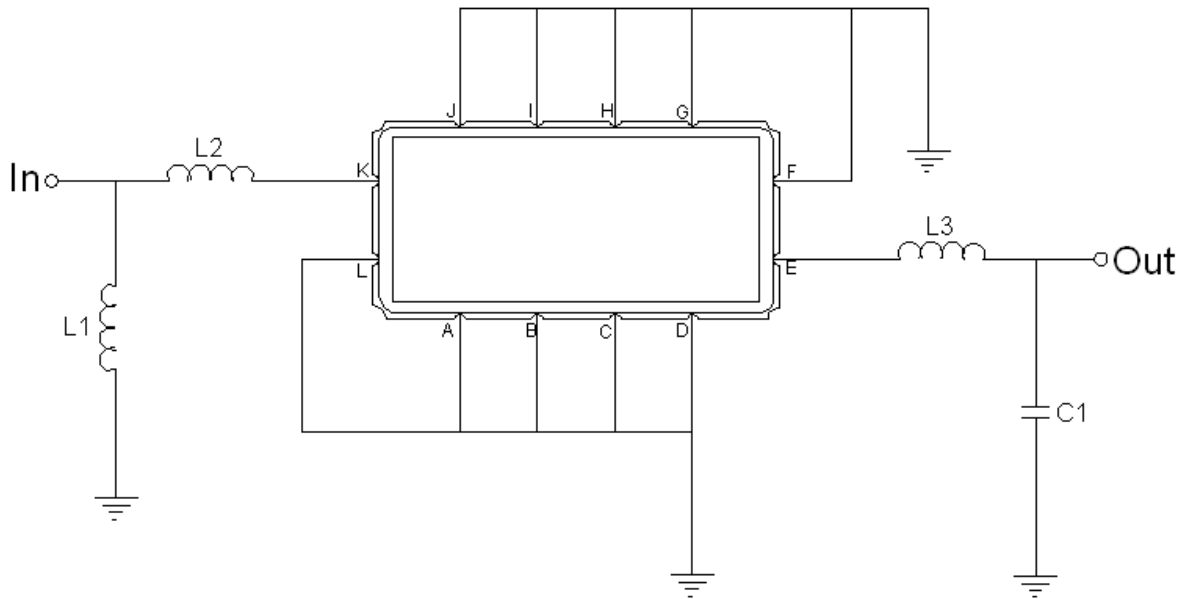
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

□ Package Dimensions



Pin Description	
A, B, C, D, F, G, H, I, J, L	Ground
K	Input
E	Output

□ Testing Environment



Test Fixture & Values	
Input	L1=18 nH, L2=27 nH
Output	L3=47 nH, C1=43 pF
Source/Load Impedance	50 Ω

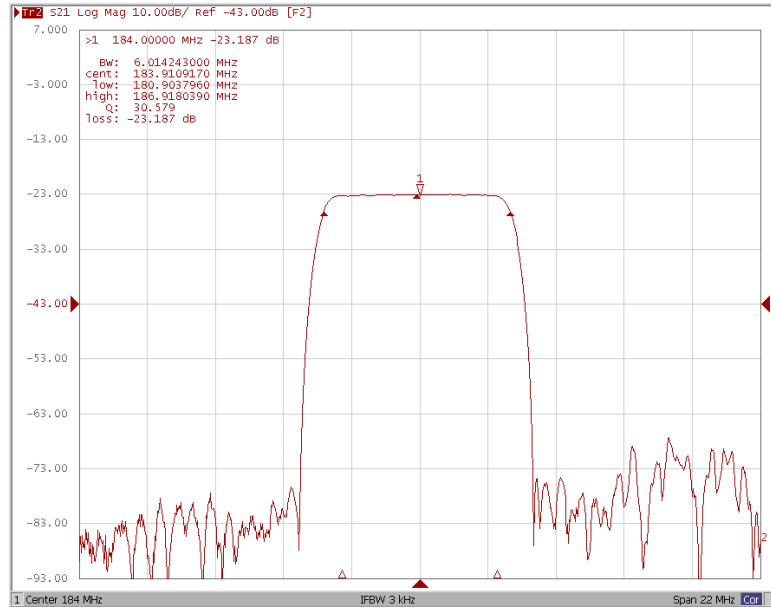
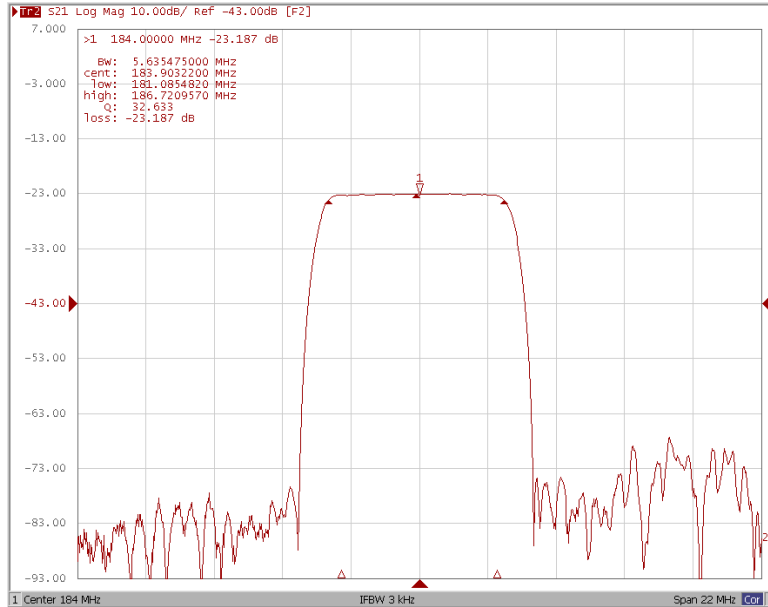


Frequency Characteristics

Frequency Response

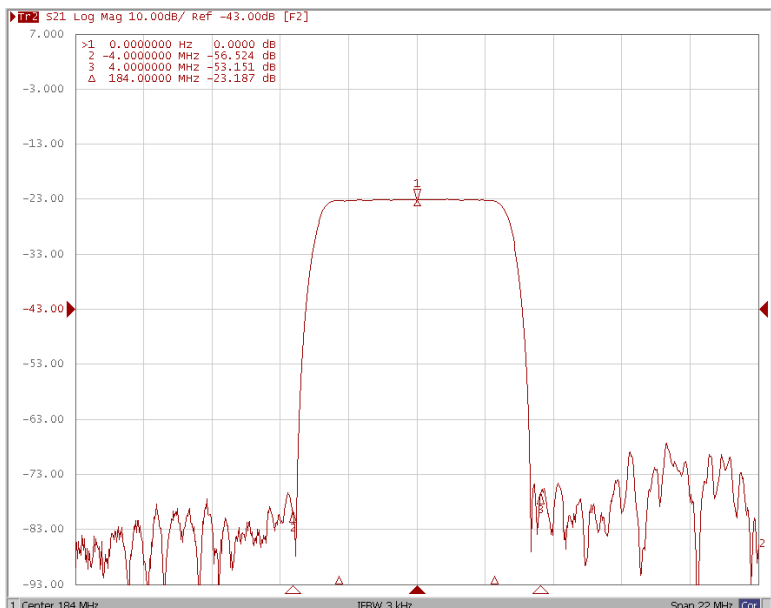
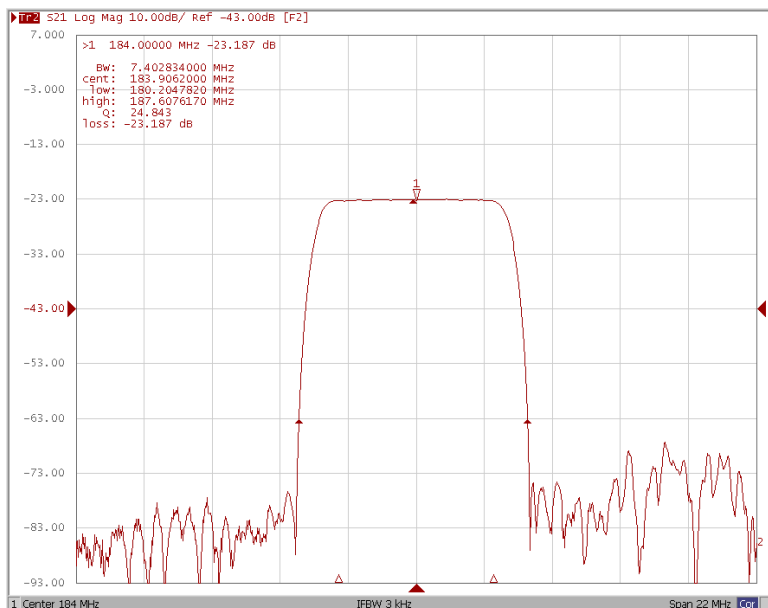
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

Relative Attenuation $F_o \pm 4$ MHz



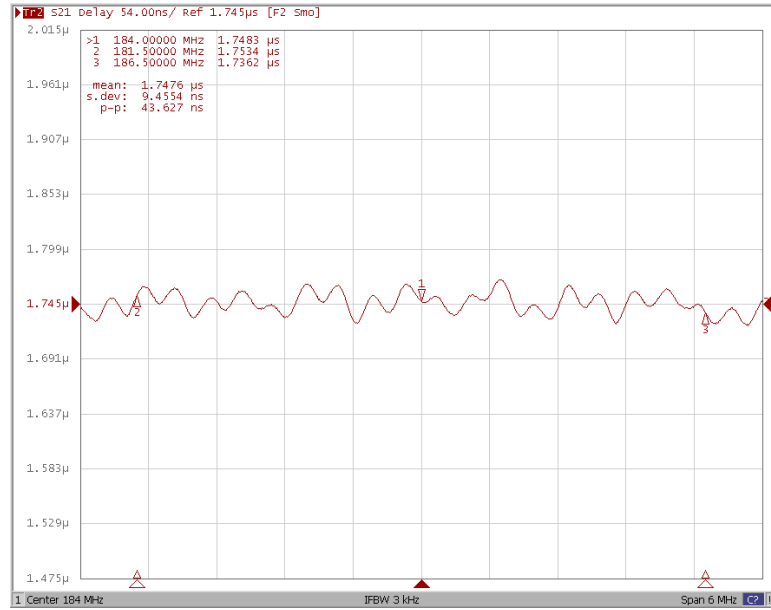
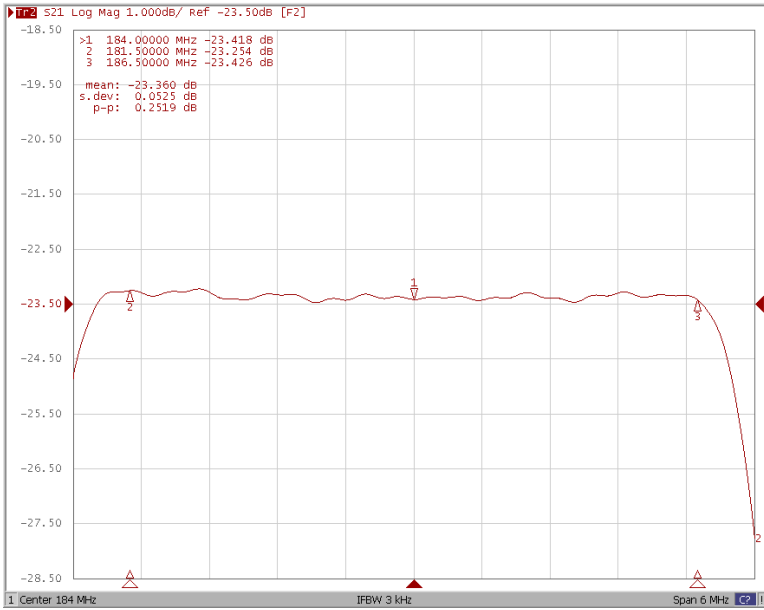


Frequency Characteristics

Frequency Response

Ripple Variation Fo±2.5MHz

Group Delay Variation Fo±2.5MHz



Smith Chart

VSWR

