



Total Solution Provider in Saw Device

SA400AM1

Wireless,RF SAW Filter
Revision 0: February 2010



- Electrical Characteristics
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 - Frequency Characteristics
-

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Electrical Characteristics

Maximum Ratings

Parameters Description		Unit	Minimum	Typical	Maximum
Operating Temperature Range		°C	-20	-	+75
Storage Temperature Range		°C	-40	-	+85
Maximum DC Voltage		V	-	-	3
Maximum Input Power		dBm	-	-	10
Source Impedance	(single ended) ⁽¹⁾	Ω	-	50	-
	(balanced ended) ⁽²⁾				
Load Impedance	(single ended) ⁽¹⁾	Ω	-	50	-
	(balanced ended) ⁽²⁾				
Package type & size		M1			
Length x Width		mm ²	-	3.0 x 3.0	-
Height		mm	-	-	1.3

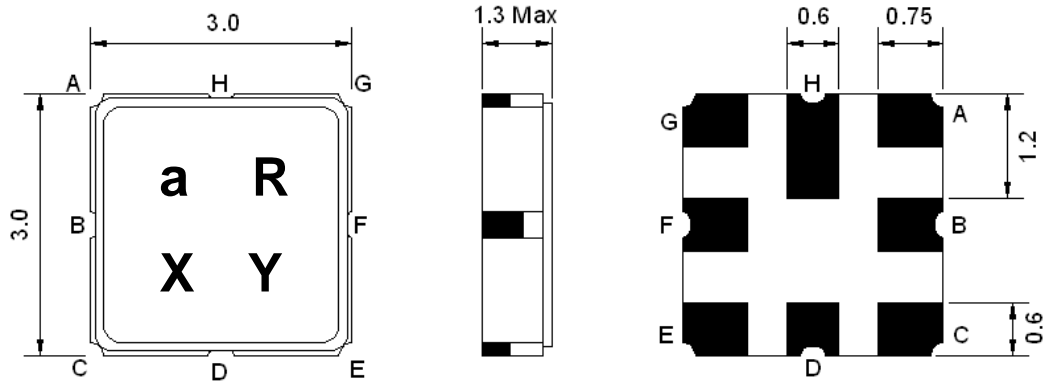


Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	400.0	-
Insertion Loss within Fo ± 75 KHz (excluding loss in matching elements)	dB	-	4.3	6.0
Insertion Loss within Fo ± 75 KHz (including loss in matching elements)	dB	-	5.2	7.5
Amplitude Ripple within Fo ± 75 KHz	dB _{p-p}	-	0.4	2
Group Delay Ripple within Fo ± 75 KHz	μsec	-	0.6	2
Temperature coefficient of frequency (TCf)	ppm/K ²	-	-0.036	-
Attenuation:				
Fo – 100 to Fo – 1.5 MHz	dB	35	60	-
Fo – 1.5 to Fo – 0.8 MHz	dB	20	46	-
Fo – 0.8 to Fo – 0.6 MHz	dB	10	39	-
Fo – 0.6 to Fo – 0.4 MHz	dB	7	27	-
Fo + 0.4 to Fo + 0.6 MHz	dB	7	27	-
Fo + 0.6 to Fo + 0.8 MHz	dB	10	39	-
Fo + 0.8 to Fo + 1.5 MHz	dB	20	46	-
Fo + 1.5 to Fo + 100 MHz	dB	35	57	-

Notes : (1) With Matching Network.
(2) With Matching Network.

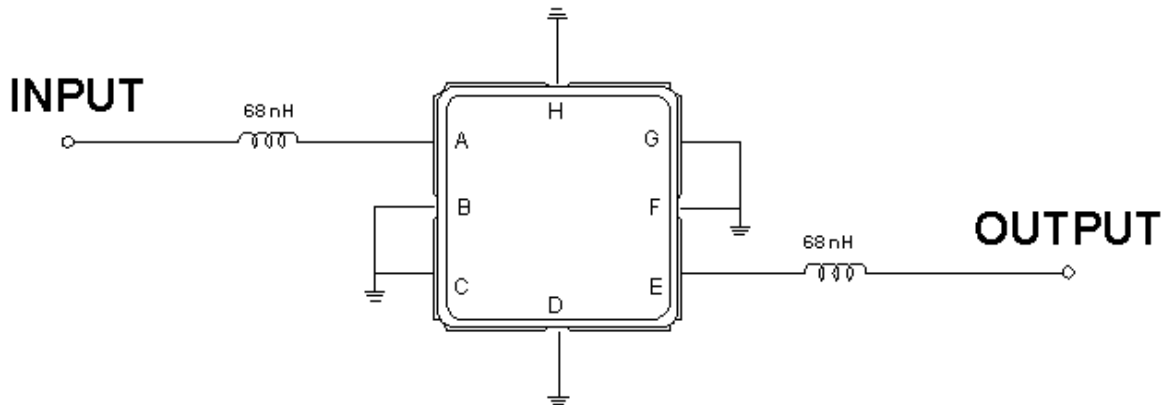
□ Package Dimensions



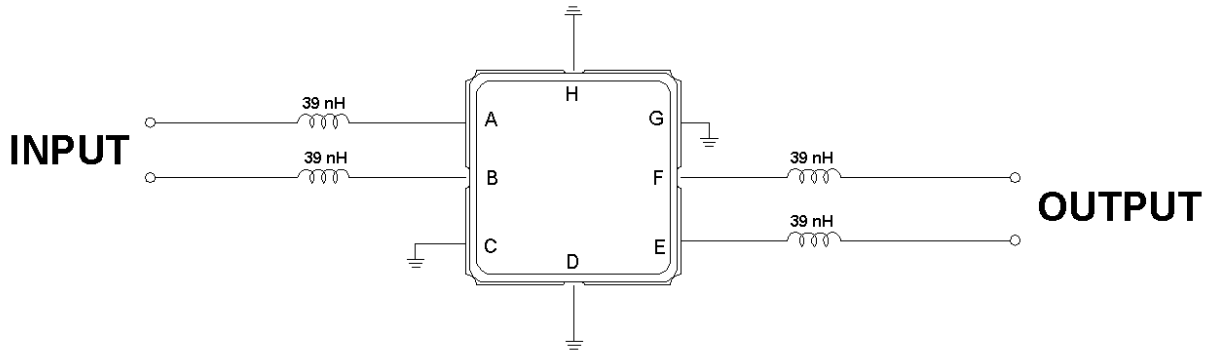
Marking Descriptions	
a	Wireless Application
R	Series Number
X	Date Code(Year)
Y	Date Code(Month)

Pin Description	
C, D, G, H	Ground
A	Input
B	Input ground or balanced input
E	Output
F	Output ground or balanced output

□ Testing Environment



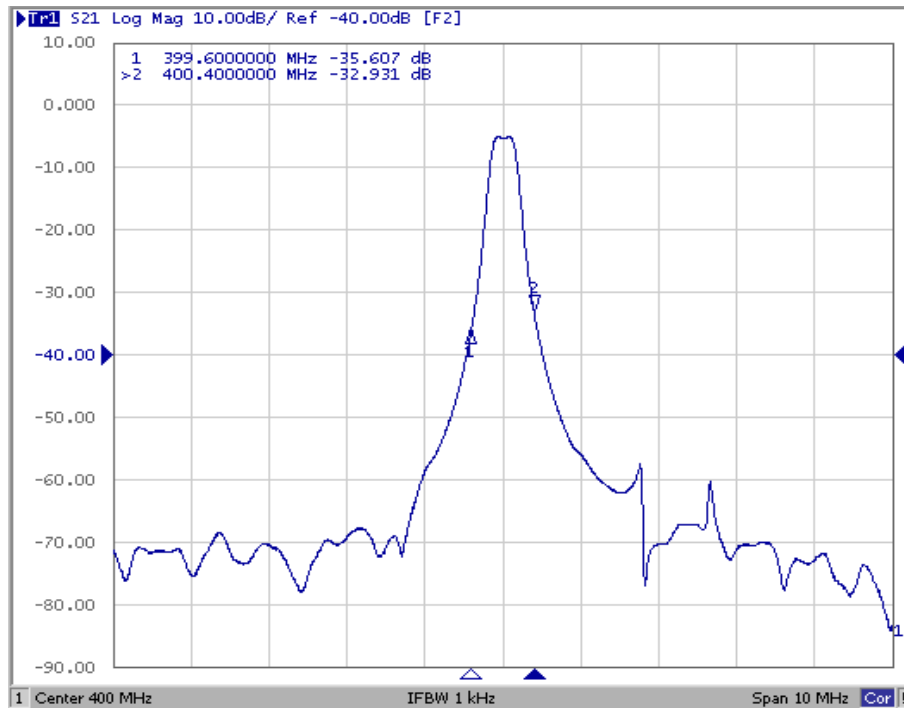
Single-ended (Source & Load Impedance: 50 Ω) ⁽¹⁾



balanced-ended (Source & Load Impedance: 50 Ω) ⁽²⁾

Frequency Characteristics

Frequency Response





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