



Total Solution Provider in Saw Device

SA1542BM1

Wireless, Balanced RF SAW Filter
Revision 0: February 2007



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

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□ Electrical Characteristics

Maximum Ratings

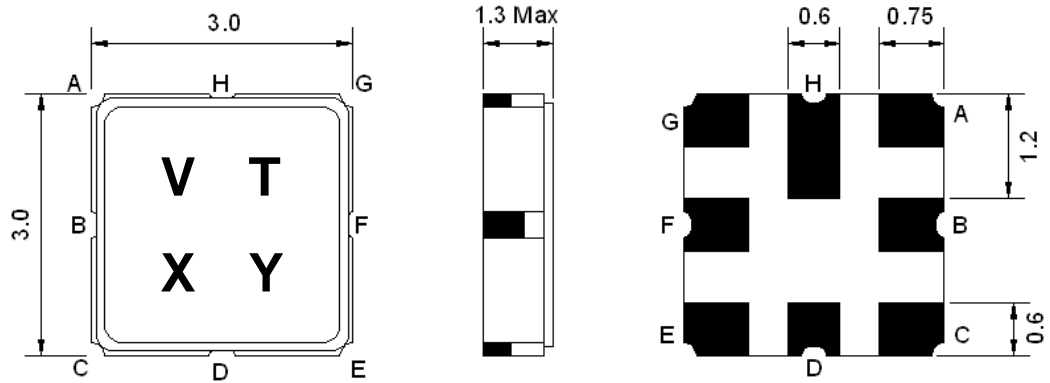
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (balanced ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M1			
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	-	1542.0	-
Maximum Insertion Loss within 1525 ~ 1559 MHz	dB	-	3.0	4.35
Amplitude Ripple within 1525 ~ 1559 MHz	dB _{p-p}	-	0.6	1.5
Attenuation:				
D.C. ~ 1000 MHz	dB	50	60	-
1000 ~ 1480 MHz	dB	37	50	-
1480 ~ 1490 MHz	dB	20	42	-
1575 MHz	dB	2	10	-
1600 ~ 1650 MHz	dB	20	30	-
1650 ~ 1785 MHz	dB	35	43	-
1785 ~ 2200 MHz	dB	33	50	-
2200 ~ 2500 MHz	dB	28	45	-
2500 ~ 4000 MHz	dB	20	30	-
Input / Output VSWR within 1525 ~ 1559 MHz	-	-	1.7	2.2

Notes : (1) No Matching Network .

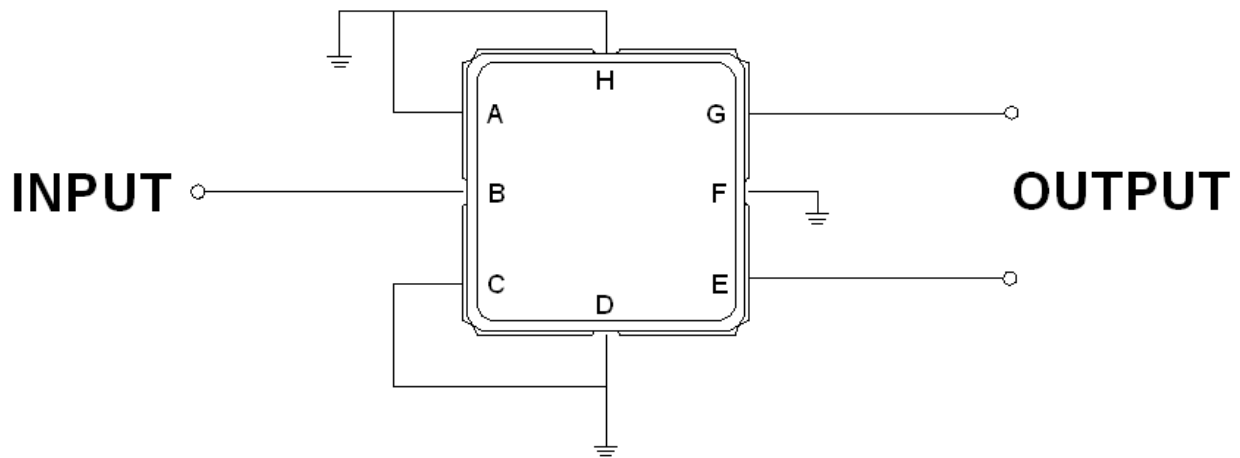
Package Dimensions



Marking Descriptions	
V	Wireless Application
T	Series Number
X	Date Code(Year)
Y	Date Code(Month)

Pin Description	
A, C, D, F, H	Ground
B	In
E, G	Out

Testing Environment

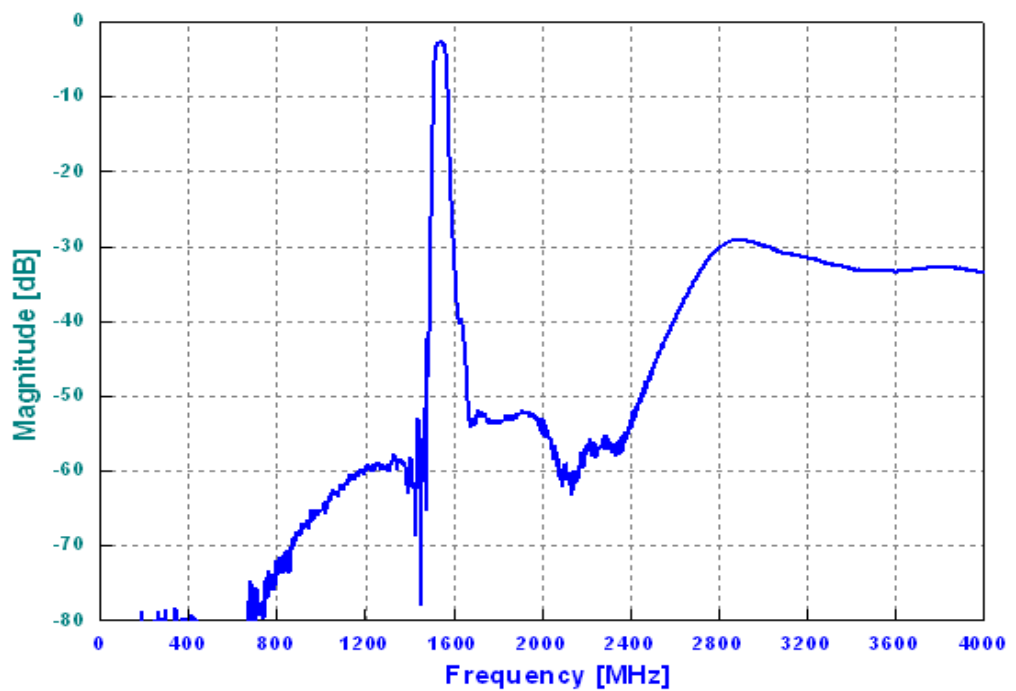
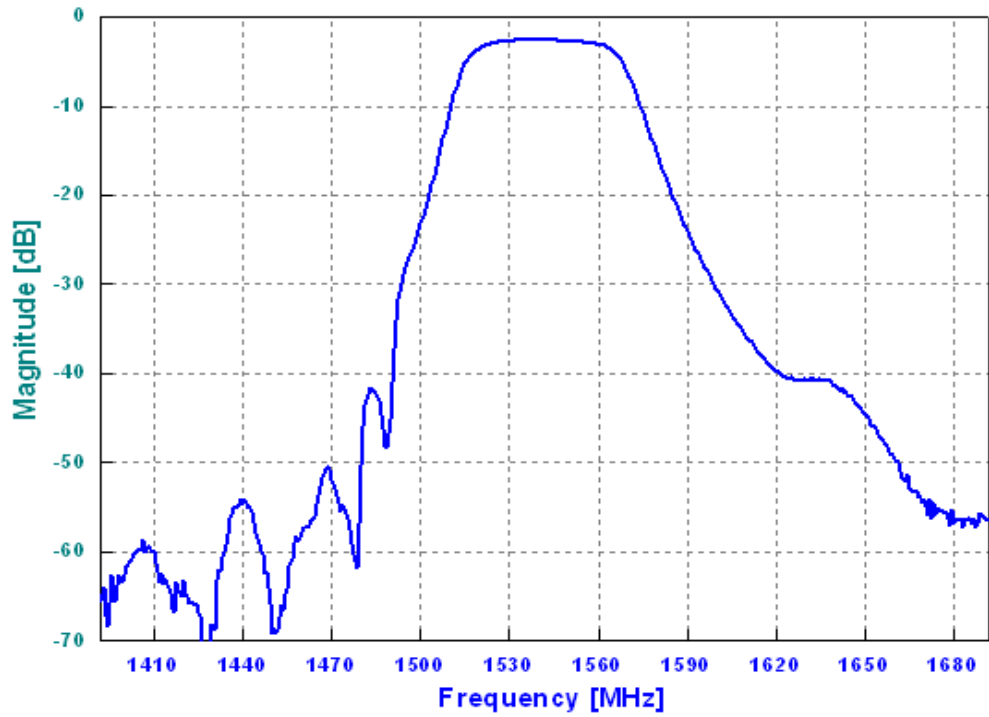


Source Impedance : 50 Ω

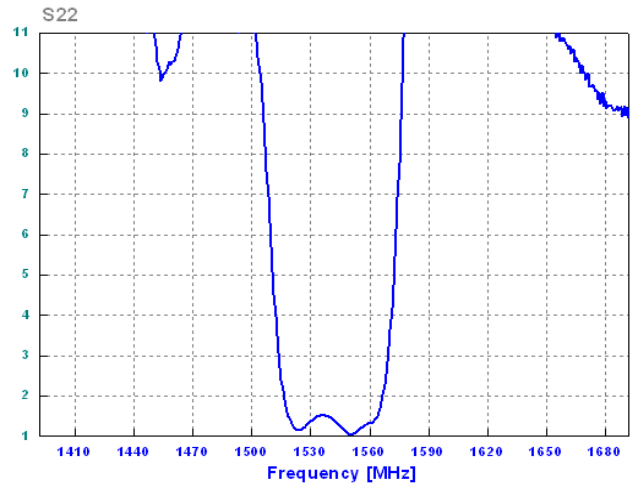
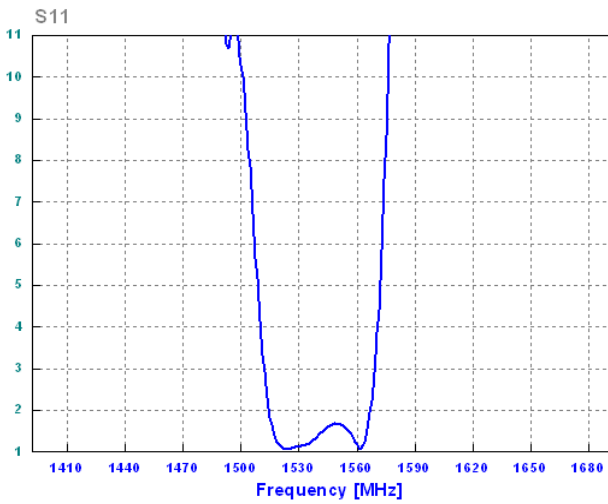
Load Impedance : 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

