



Total Solution Provider in Saw Device

SA2140EM

WCDMA, RF-Rx SAW Filter

Revision 0: May 2009



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

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□ Electrical Characteristics

Maximum Ratings

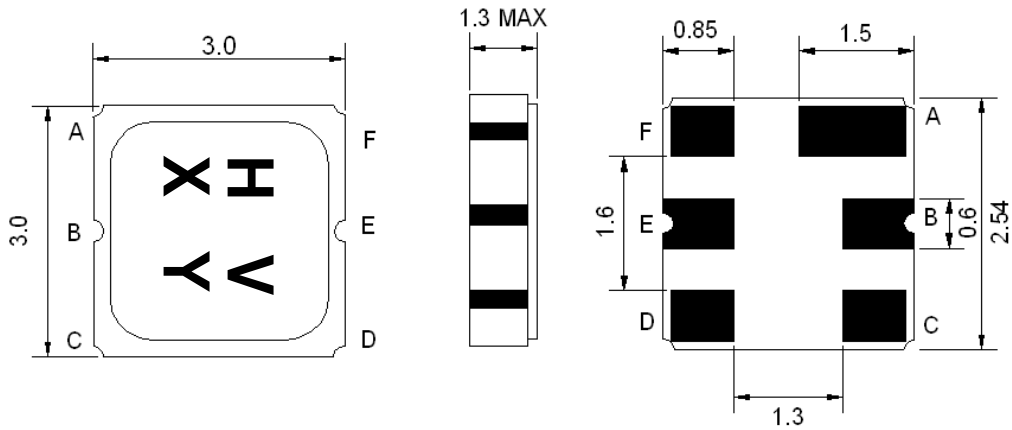
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	7.5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	2140.0	-
Insertion Loss within 2110.0.0 ~ 2170.0 MHz	dB	-	2.0	3.2
Amplitude Ripple within 2110.0 ~ 2170.0 MHz	dB _{p-p}	-	0.8	1.5
Attenuation:				
D.C. ~ 500.0 MHz	dB	23	28	-
500.0~ 2025.0 MHz	dB	20	25	-
2025.0 ~ 2050.0 MHz	dB	30	40	-
2230.0 ~ 2260.0 MHz	dB	30	40	-
2490.0 ~ 2550.0 MHz	dB	30	35	-
VSWR within 2110.0 ~ 2170.0 MHz	-	-	1.6	2.2

Notes : (1) No Matching Network (Ref. Testing Environment Circuit as shown below).

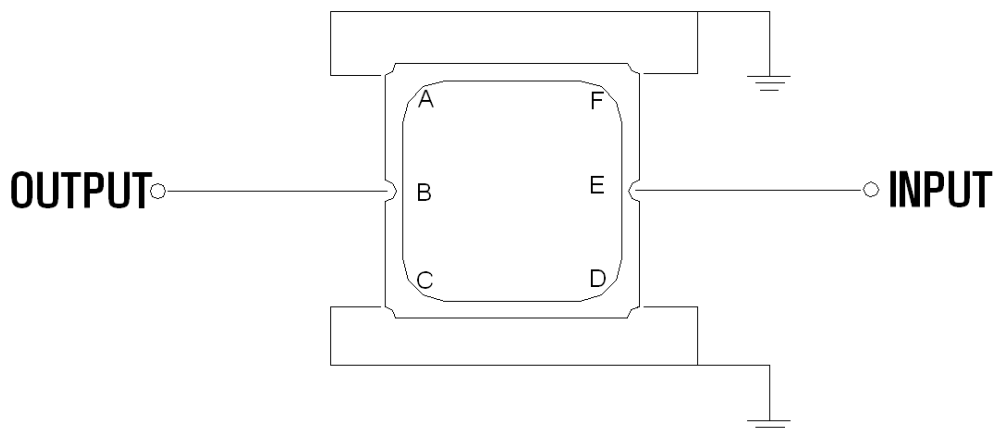
Package Dimensions



Marking Descriptions	
H	WCDMA Application
V	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

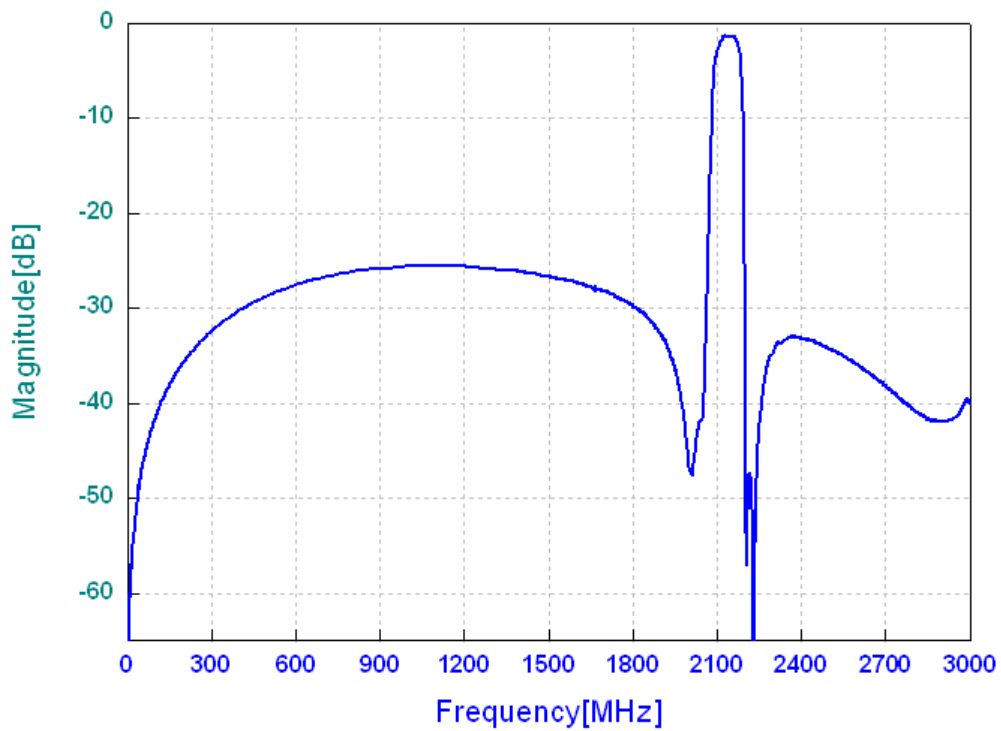
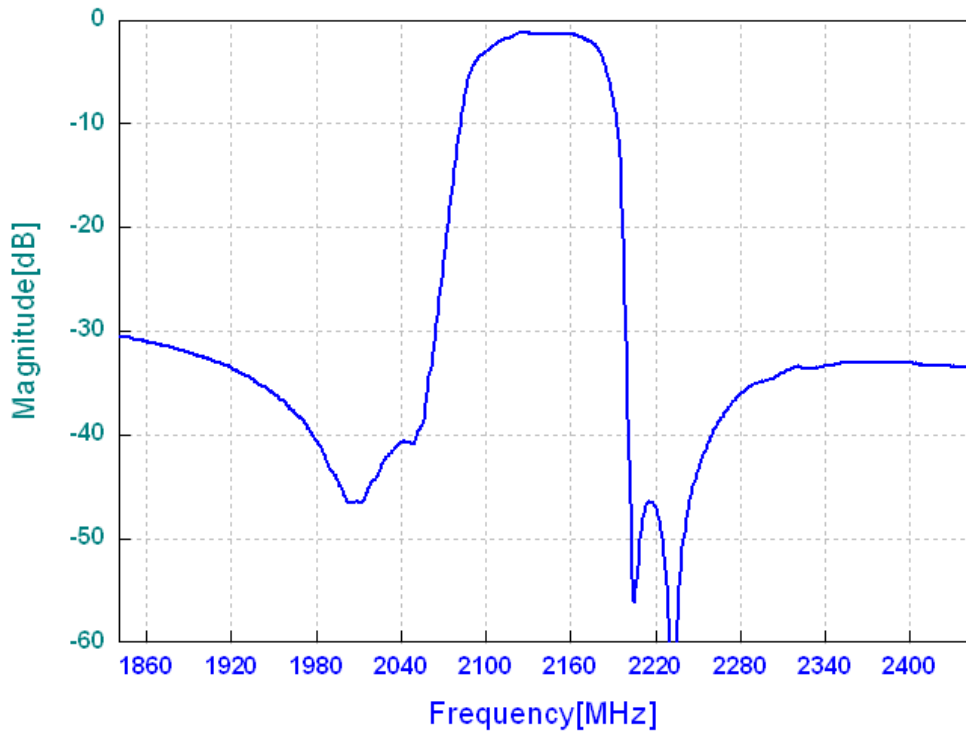
Testing Environment



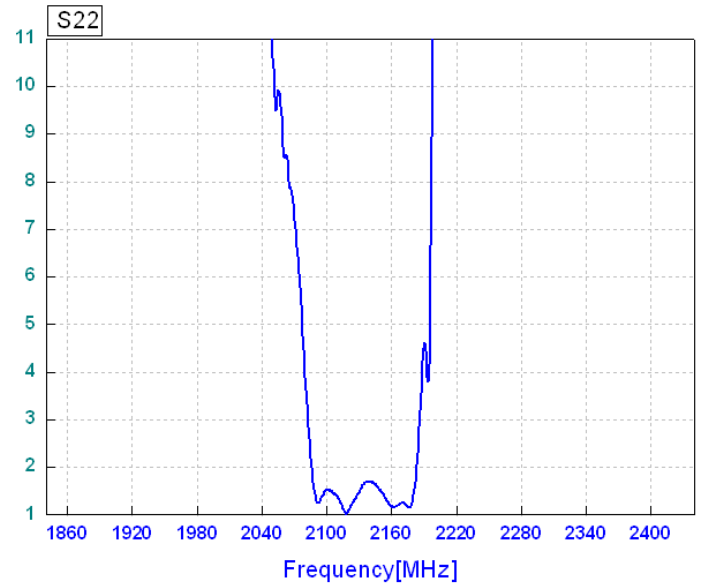
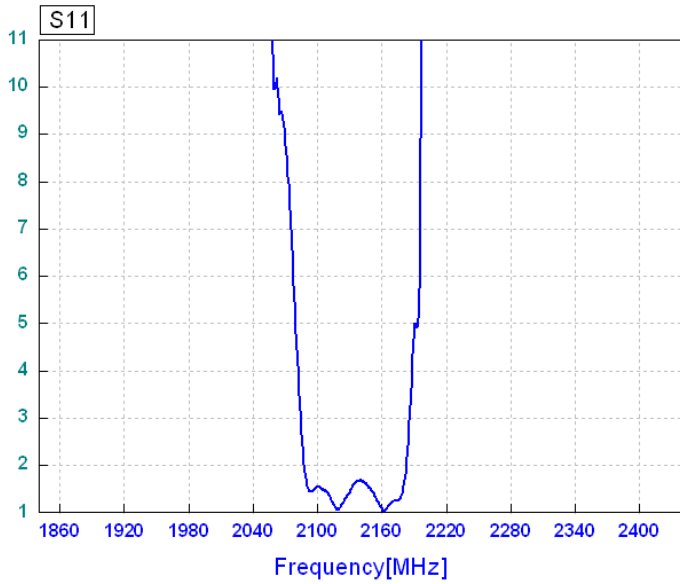
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

