

SA707BM

LTE, RF SAW Filter
Revision 4: March 2014



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

□ Electrical Characteristics

Maximum Ratings

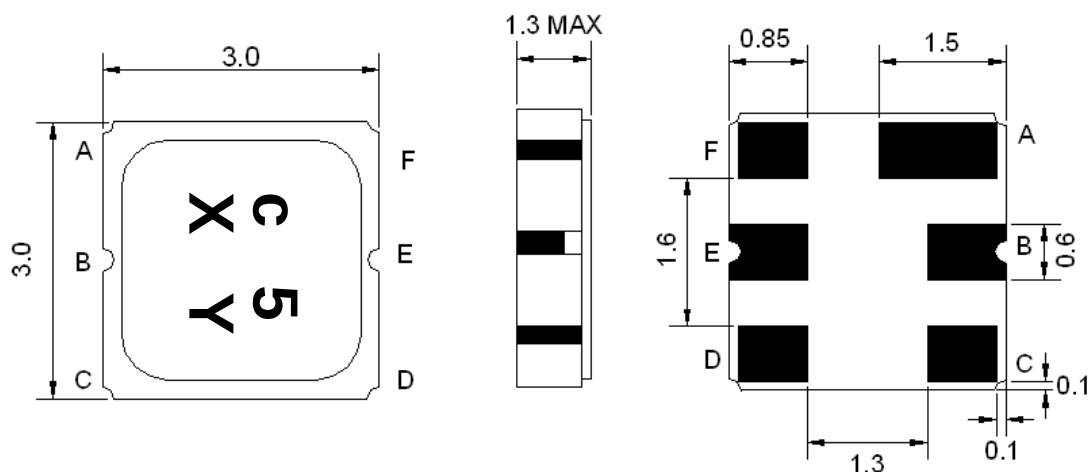
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	0	-	+50
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	707.0	-
Insertion Loss within 698.0 ~ 716.0 MHz	dB	-	1.8	2.5
Amplitude Ripple within 698.0 ~ 716.0 MHz	dB _{p-p}	-	1.2	1.5
Return Loss within 698.0 ~ 716.0 MHz	dB	8	10	-
Attenuation:				
20.0 ~ 450.0 MHz	dB	30	32	-
558.0 ~ 576.0 MHz	dB	30	32	-
628.0 ~ 646.0 MHz	dB	25	32	-
722.5 ~ 729.0 MHz	dB	11	14	-
728.0 ~ 746.0 MHz	dB	30	42	-
768.0 ~ 786.0 MHz	dB	30	34	-
1000.0 ~ 3000.0 MHz	dB	3	6	-

Notes : (1) No Matching Network .

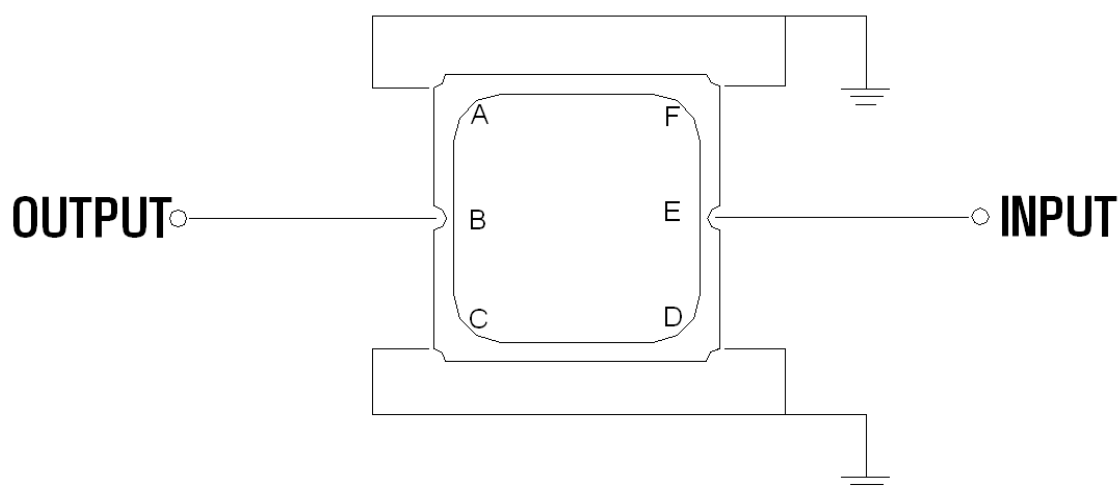
Package Dimensions



Marking Descriptions	
c	LTE Application
5	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

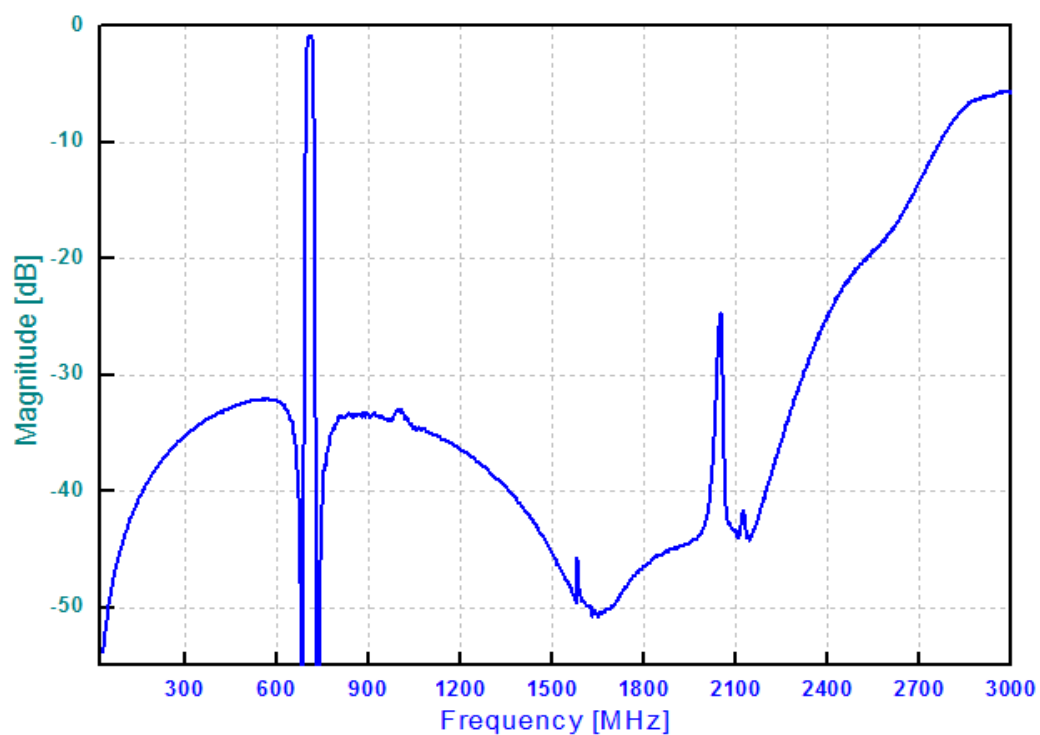
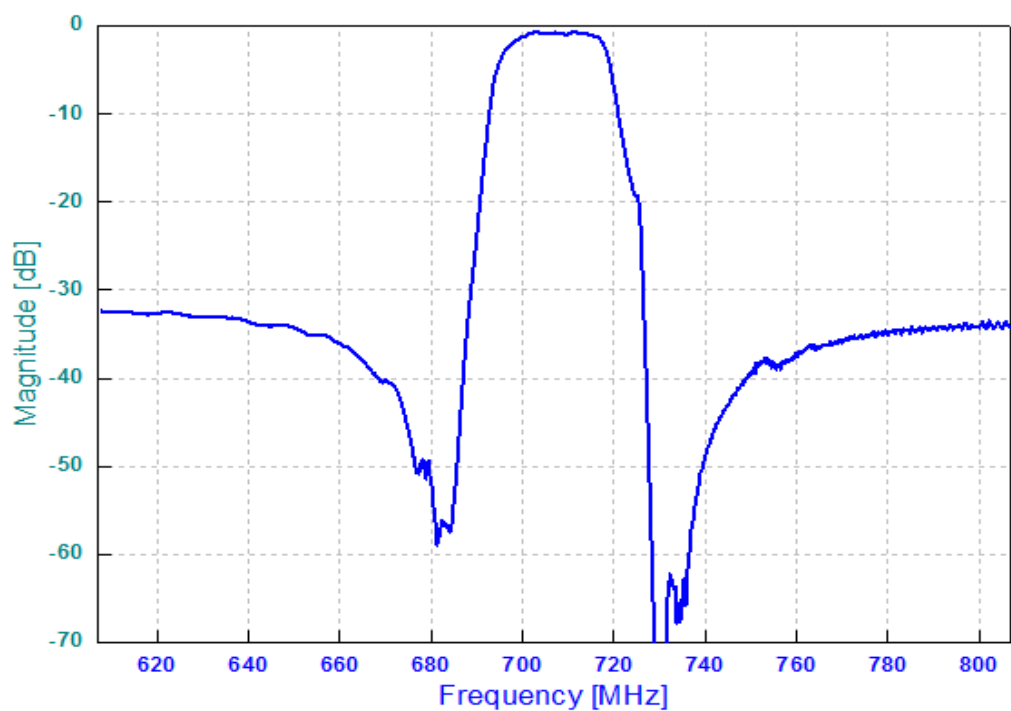
Testing Environment



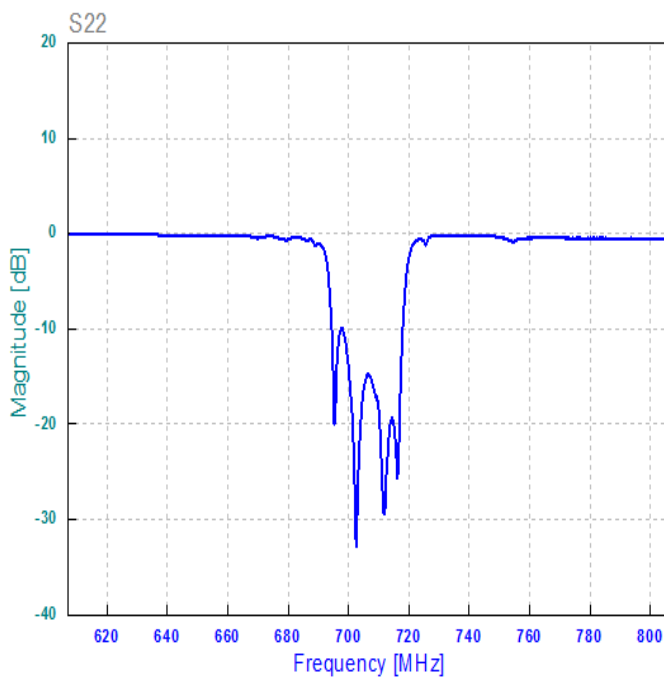
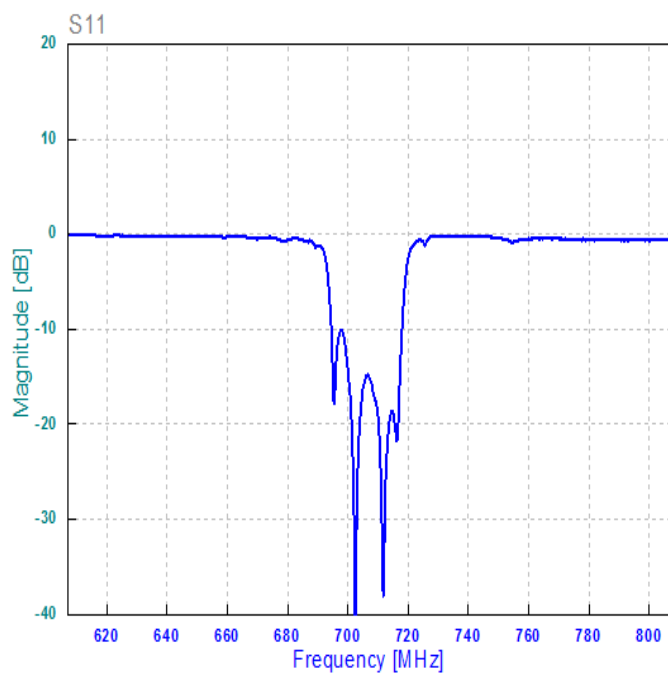
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Return Loss



Smith Chart

