



Total Solution Provider in Saw Device

SA1747DM

PCN, RF SAW Filter
Revision 0: MAY 2009



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

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□ Electrical Characteristics

Maximum Ratings

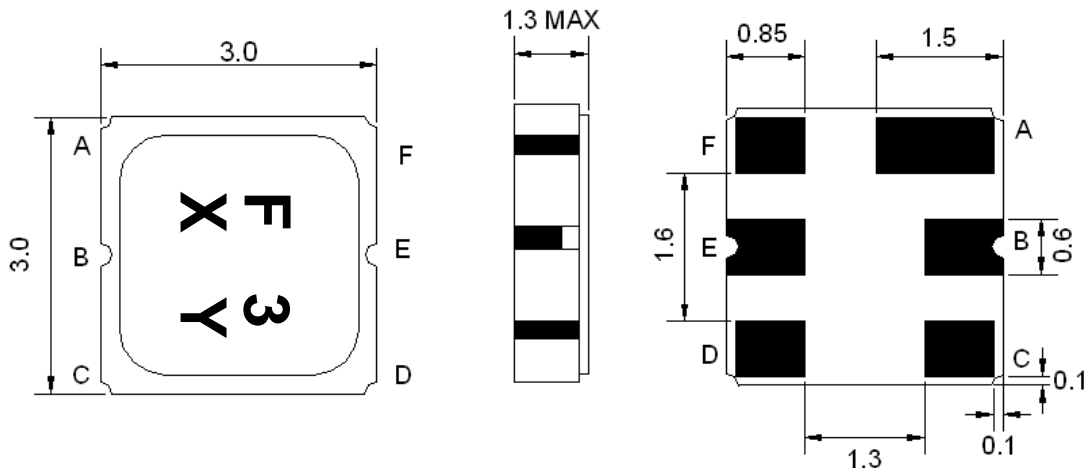
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	20
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
Length x Width	mm ²	-	3.0 x 3.0	-
Height	mm	-	-	1.4

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1747.5	-
Insertion Loss within 1710.0 ~ 1785.0 MHz	dB	-	2.6	4.0
Amplitude Ripple within 1710.0 ~ 1785.0 MHz	dB _{p-p}	-	1.6	2.5
Attenuation:				
10.0 ~ 1670.0 MHz	dB	15	23	-
1670.0 ~ 1690.0 MHz	dB	6	23.9	-
1805.0 ~ 1880.0 MHz	dB	6	24	-
1880.0 ~ 4500.0 MHz	dB	15	25	-
4500.0 ~ 5000.0 MHz	dB	10	14	-
VSWR within 1710.0 ~ 1785.0 MHz	dB	-	1.8	2.5

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

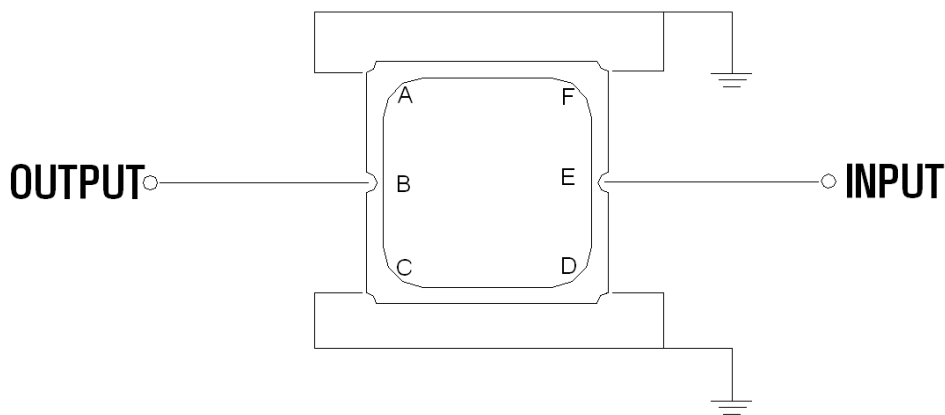
Package Dimensions



Marking Descriptions	
F	PCN Application
3	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

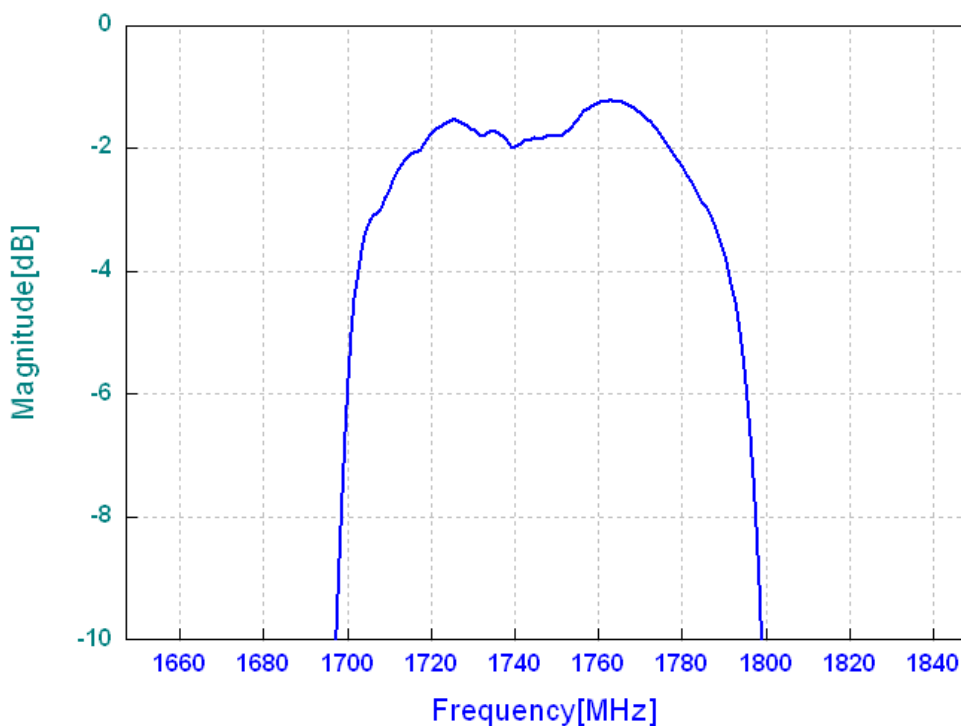
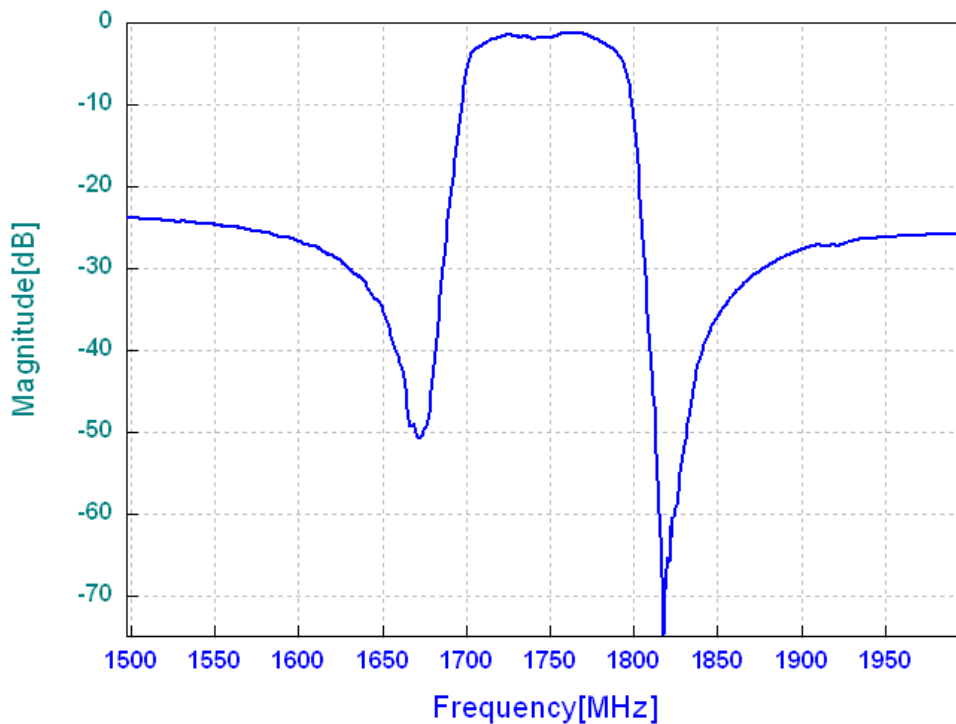
Testing Environment



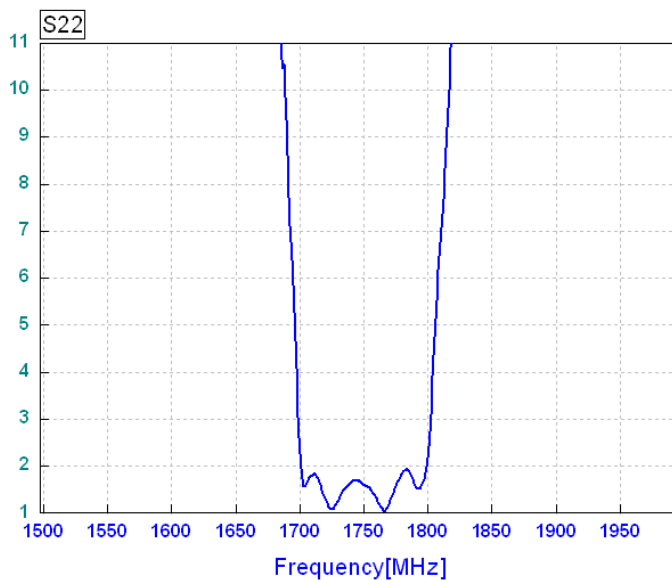
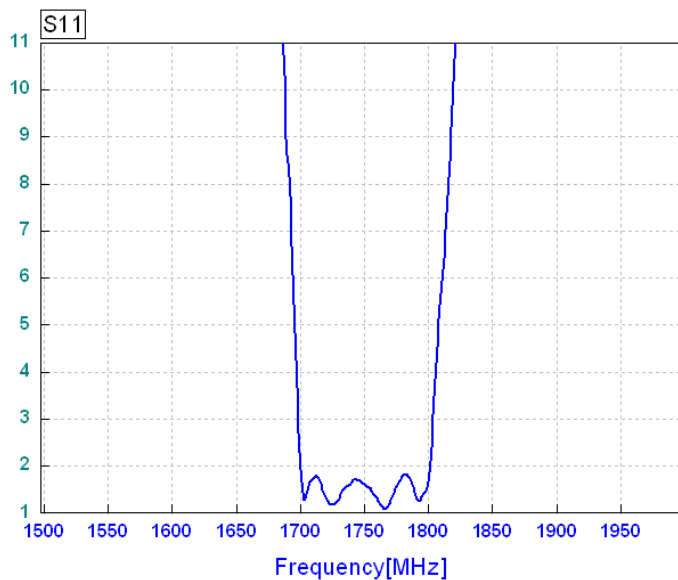
Source & Load Impedance: 50 Ω



Frequency Response



VSWR



Smith Chart

