



*Total Solution Provider in Saw Device*

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# SA2017AM

TD-SCDMA, RF SAW Filter  
Revision 1: MAY 2009



- Electrical Characteristics
  - Package Dimensions
  - Testing Environment
  - Frequency Characteristics
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**SAWNICS Inc.**

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460 Cheonheung-ri, Seonggeo-eup, Cheonan-si, Chungcheongnam-do, 330-836 / Korea.  
Tel: +82 41 550 9372 / Fax: +82 41 550 9399 / [www.sawnics.com](http://www.sawnics.com)



## Electrical Characteristics

### Maximum Ratings

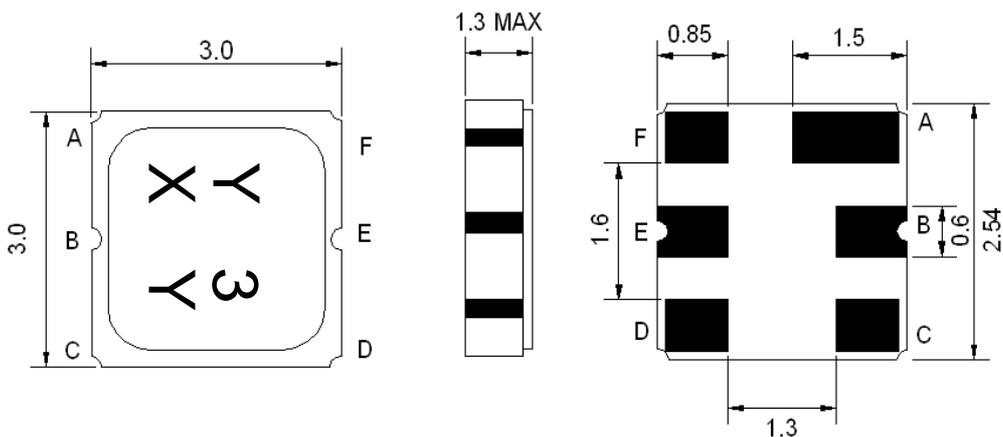
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	M			
Length x Width	mm <sup>2</sup>	-	3.0 x 3.0	-
Height	mm	-	-	1.3

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	2017.5	-
Insertion Loss within 2010.0~2025.0 MHz	dB	-	1.8	2.5
Amplitude Ripple within 2010.0~2025.0 MHz	dB <sub>p-p</sub>	-	0.6	1.5
<b>Attenuation:</b>				
D.C. ~ 1820.0 MHz	dB	25	32	-
1820.0 ~ 1850.0 MHz	dB	28	35	-
1921.5 MHz	dB	50	55	-
2085.0 ~ 2400.0 MHz	dB	25	40	-
2400.0 ~ 2430.0 MHz	dB	25	40	-
2430.0 ~ 3000.0 MHz	dB	25	40	-
3000.0 ~ 4010.0 MHz	dB	28	32	-
4010.0 ~ 6000.0 MHz	dB	4	6	-
VSWR within 2010.0~2025.0 MHz	-	-	1.5	2.1

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

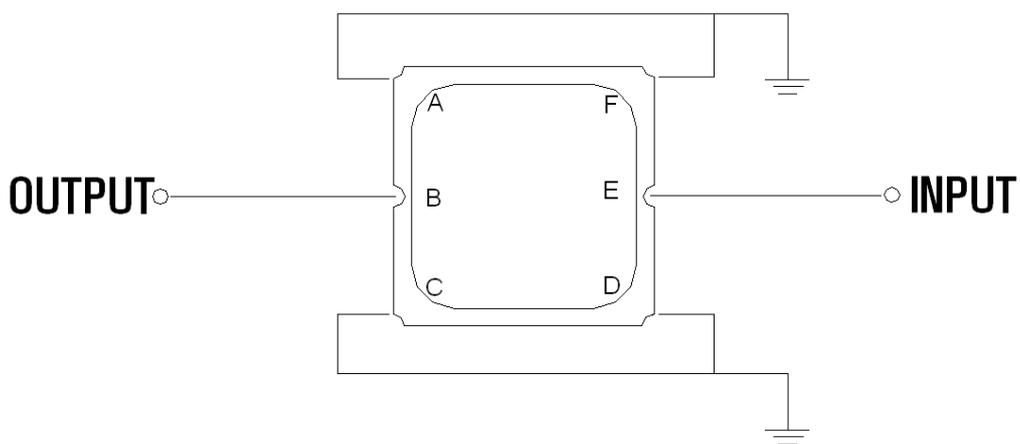
**Package Dimensions**



Marking Descriptions	
Y	TD-SCDMA 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

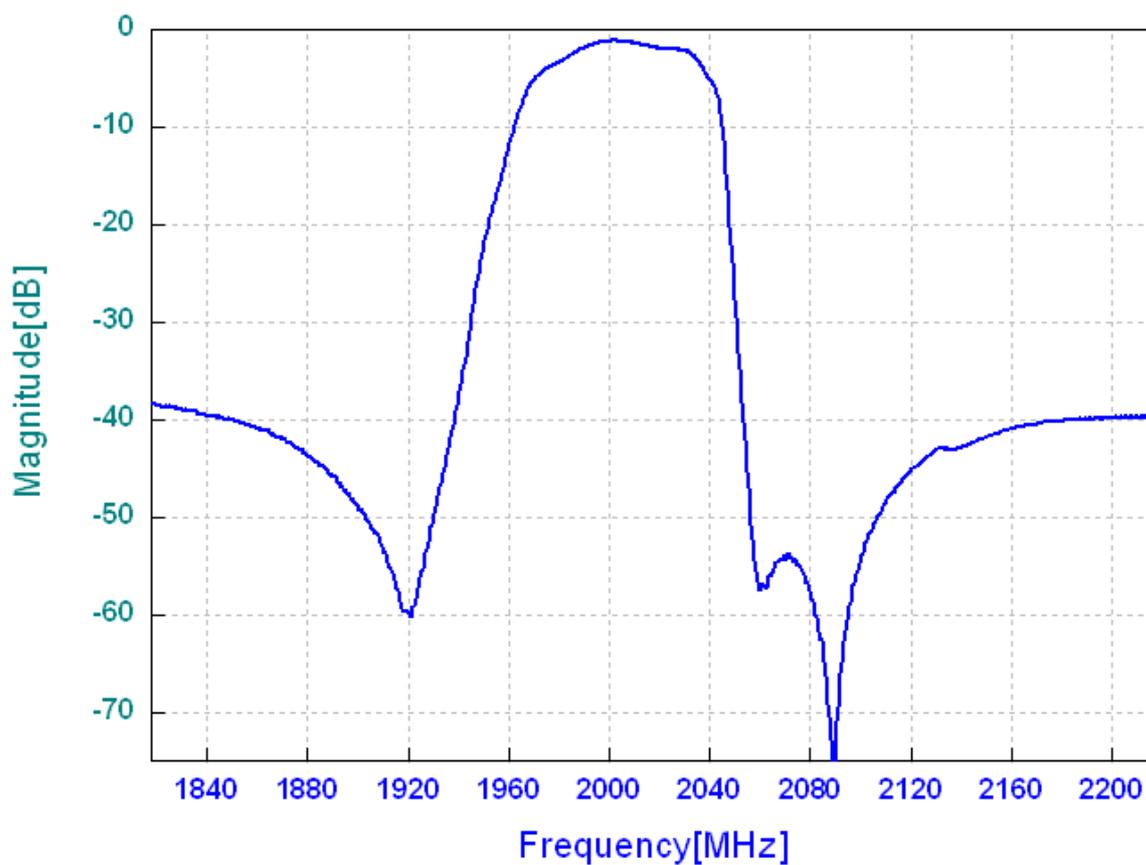
**Testing Environment**



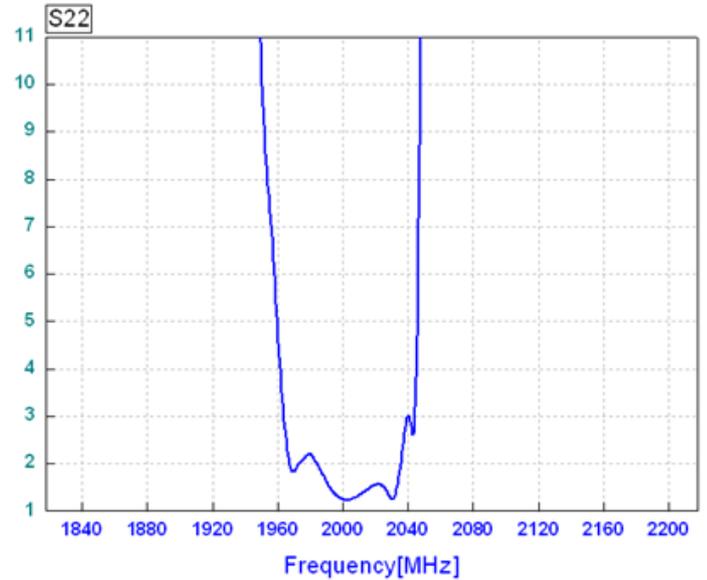
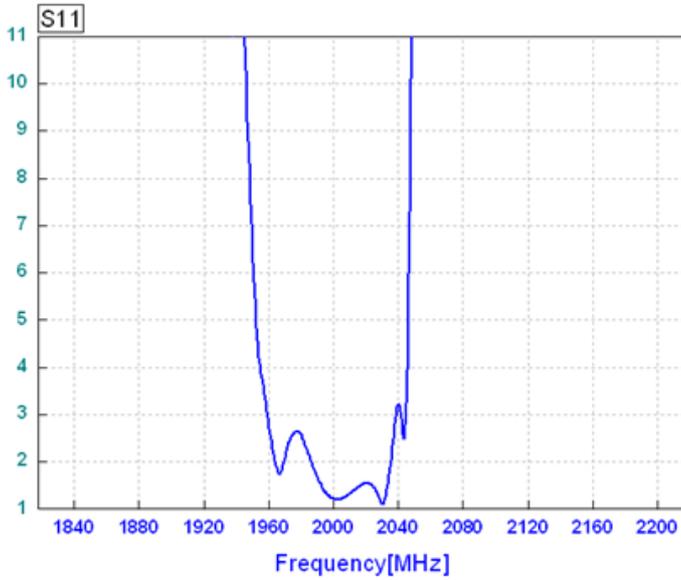
Source & Load Impedance: 50 Ω

## Frequency Characteristics

Frequency Response



### VSWR



### Smith Chart

