



Total Solution Provider in Saw Device

SA491AM

CDMA 450 F-Band, RF-Rx SAW Filter
Revision 0: November 2006



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

SAWNICS Inc.

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



Electrical Characteristics

Maximum Ratings

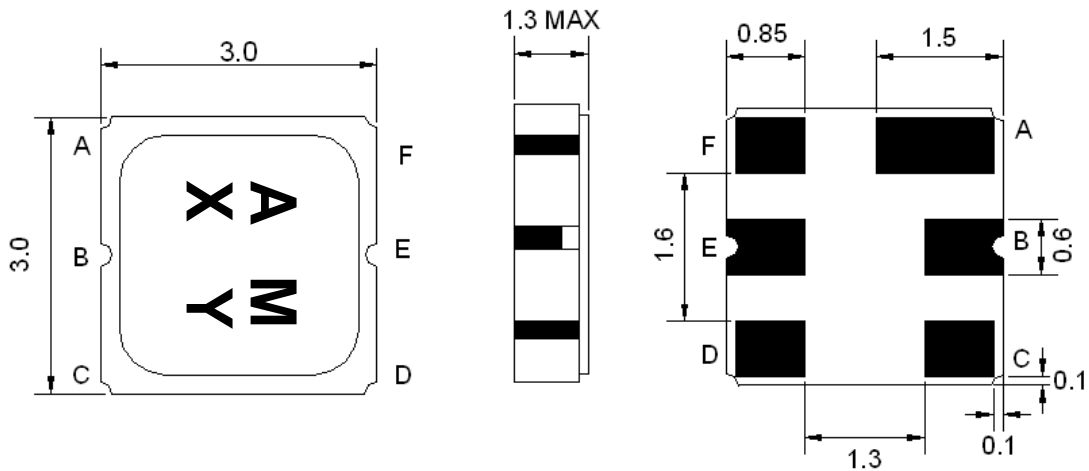
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	27
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	491.2	-
Insertion Loss within 489.0 ~ 493.5 MHz	dB	-	2.5	3.5
Attenuation:				
0.3 ~ 479.0 MHz	dB	40	50	-
479.0 ~ 483.5 MHz	dB	35	48	-
515.0 ~ 800.0 MHz	dB	40	49	-
800.0 ~ 1200 MHz	dB	30	43	-
1200 ~ 2000 MHz	dB	25	37	-
VSWR within 489.0 ~ 493.5 MHz	-	-	1.5	2.0

Notes : (1) No Matching Network

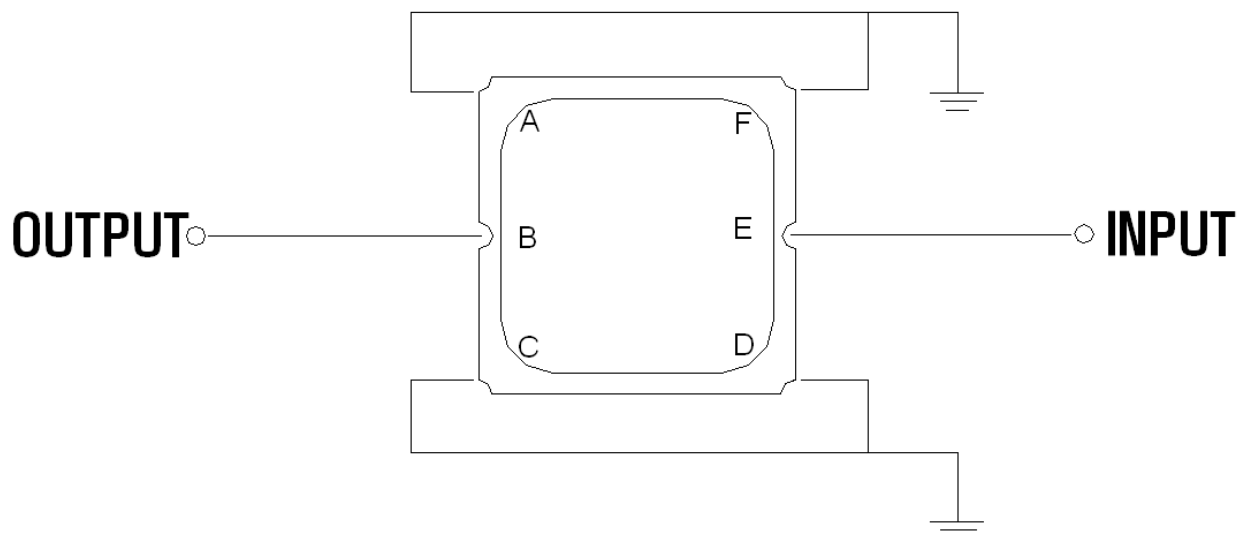
Package Dimensions



Marking Descriptions	
A	CDMA450 Application
M	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

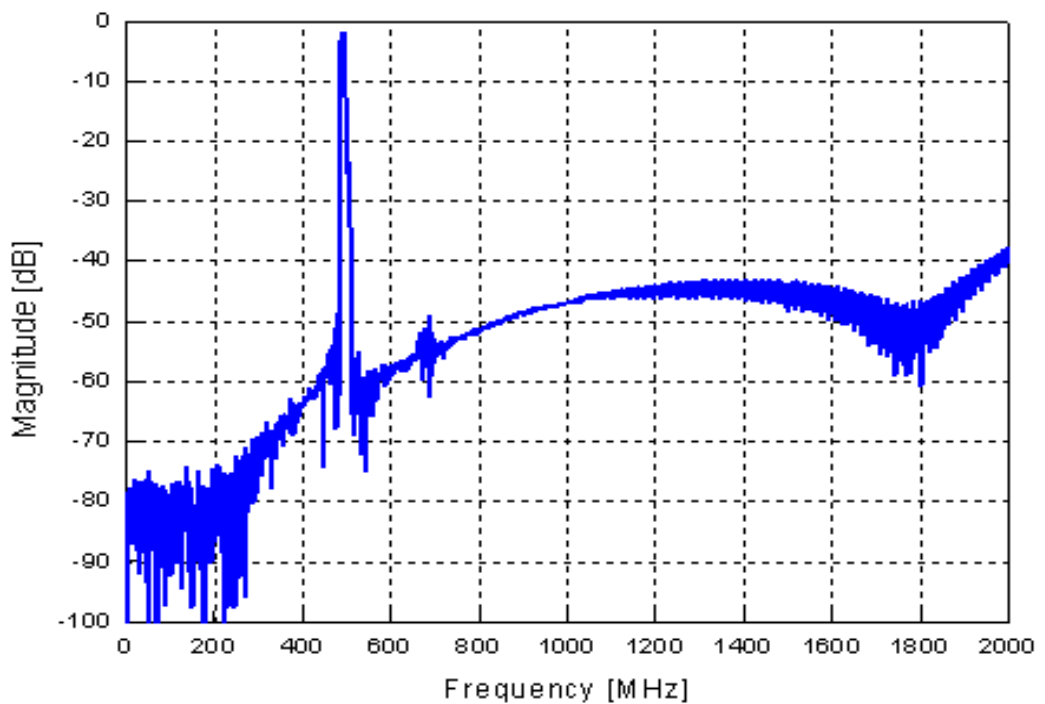
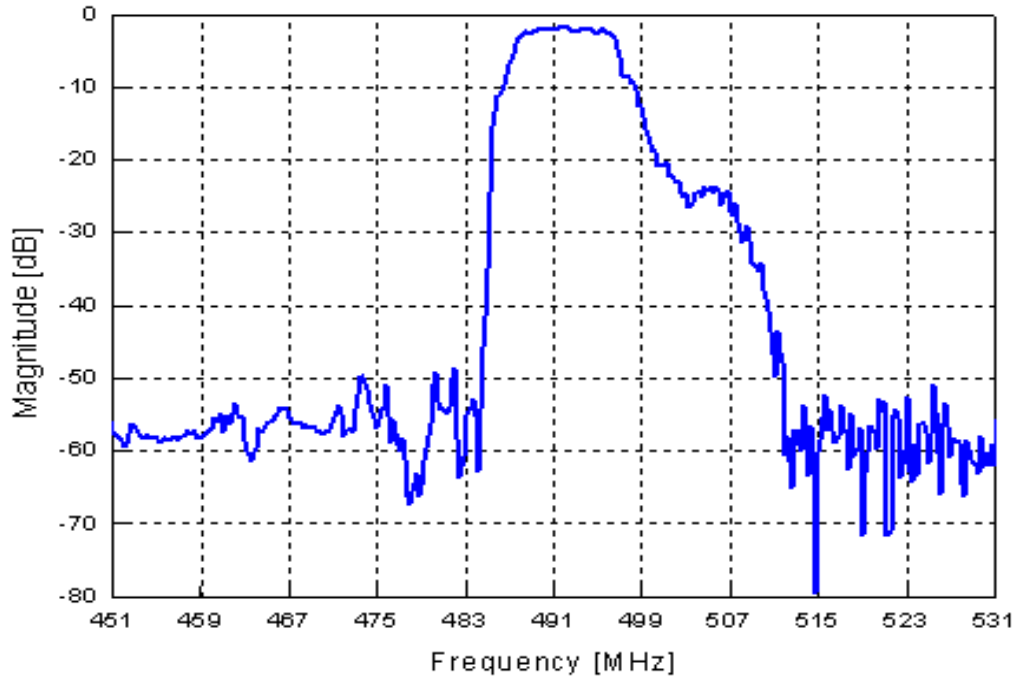
Testing Environment



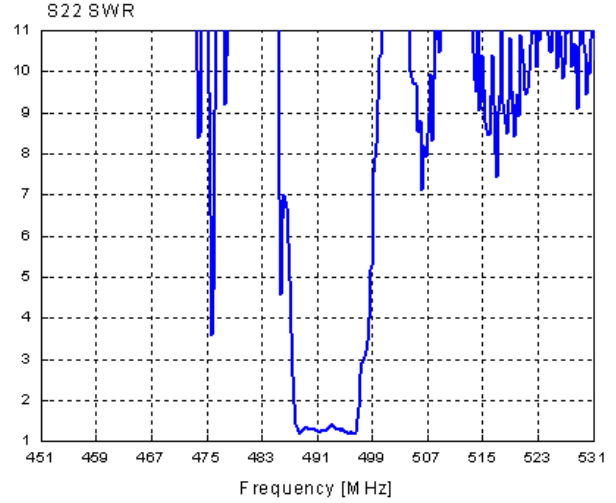
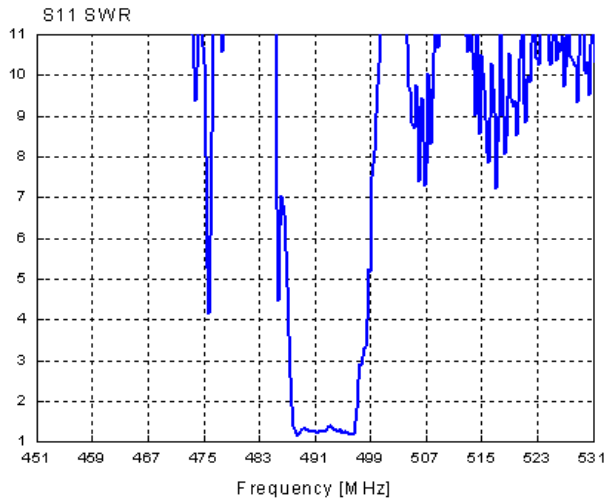
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

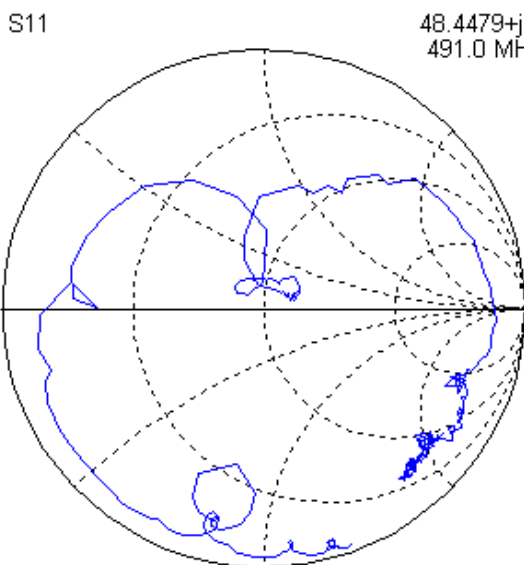
Frequency Response



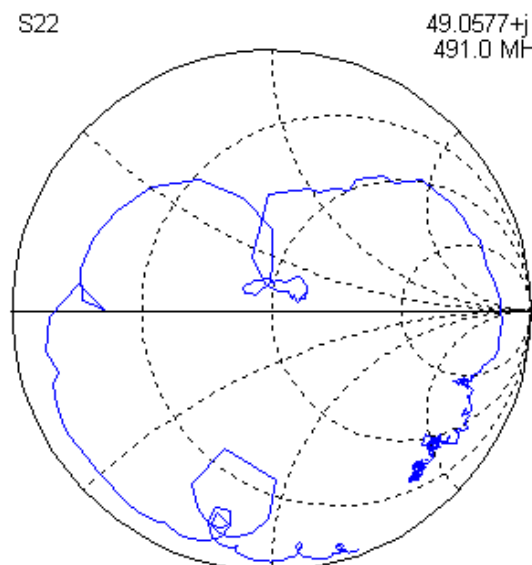
VSWR



Smith Chart



48.4479+j11.4963
491.0 MHz



49.0577+j11.5532
491.0 MHz