

- PCN, Balanced RF SAW Filter
- Revision 0: March 2013

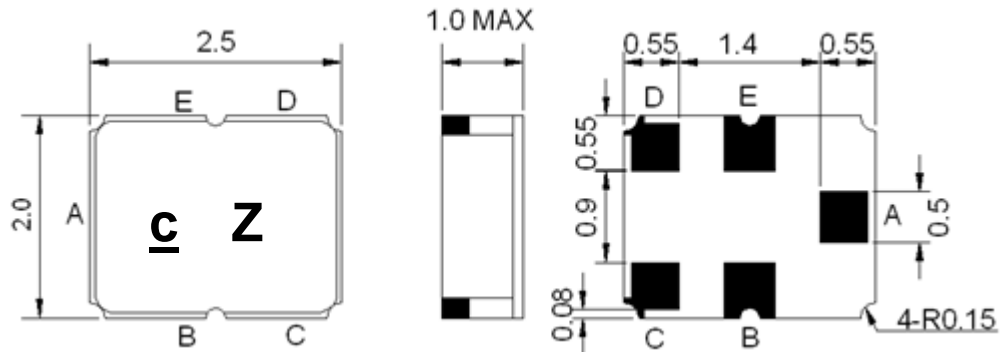
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-20	-	+75
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (unbalanced) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (balanced) <sup>(1)</sup>	Ω	-	150//22nH	-
Package type & size	C51			
Length x Width	mm <sup>2</sup>	-	2.5 x 2.0	-
Height	mm	-	-	1.0

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	1747.5	-
Insertion Loss within 1710 ~ 1785MHz	dB	-	3.0	4.0
Amplitude Ripple within 1710 ~ 1785MHz	dB <sub>p-p</sub>	-	0.9	2.1
Attenuation:( Reference level from 0 dB)				
D.C. ~ 1200 MHz	dB	40	43	-
1200 ~ 1600 MHz	dB	30	33	-
1600 ~ 1690 MHz	dB	9	15	-
1825 ~ 1890 MHz	dB	10	19	-
1890 ~ 2200 MHz	dB	20	26	-
2200 ~ 3000 MHz	dB	30	35	-
3000 ~ 4000 MHz	dB	40	50	-
Input VSWR within 1710 ~ 1785MHz	-	-	2.1	2.7
Output VSWR within 1710 ~ 1785MHz	-	-	2.3	2.7
Symmetry in band (referenced to the matched operating condition)				
Output Amplitude balance( S31 / S21 ) (1710 ~ 1785MHz)	dB	-2.0	0	2.0
Output phase balance(Φ(s31)-Φ(s21)+180) (1710 ~ 1785MHz)	degree	-12	0	12

**Notes:** (1) With Matching Network

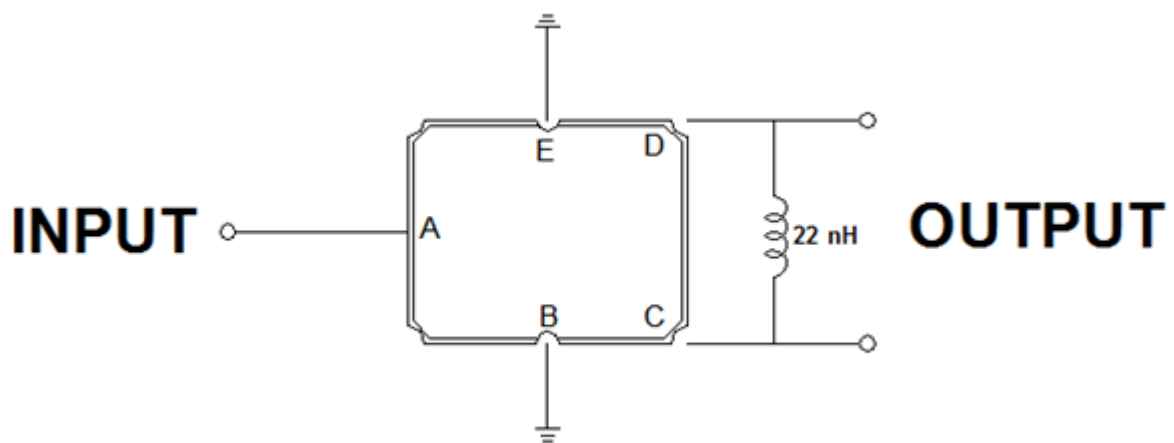
## Package Dimensions



Marking Descriptions	
c	Series Number
Z	Date Code (Year+Month)

Pin Description	
B, E	Ground
A	Input
C, D	Balance Output

## Testing Environment

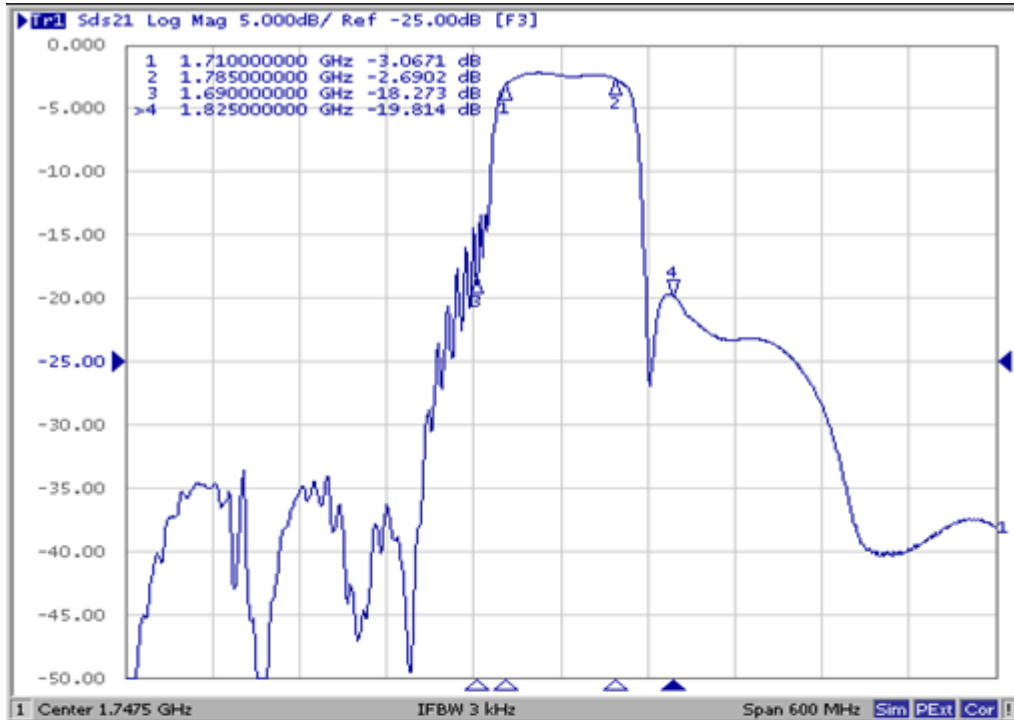


Source Impedance: 50  $\Omega$

Load Impedance: 150  $\Omega$

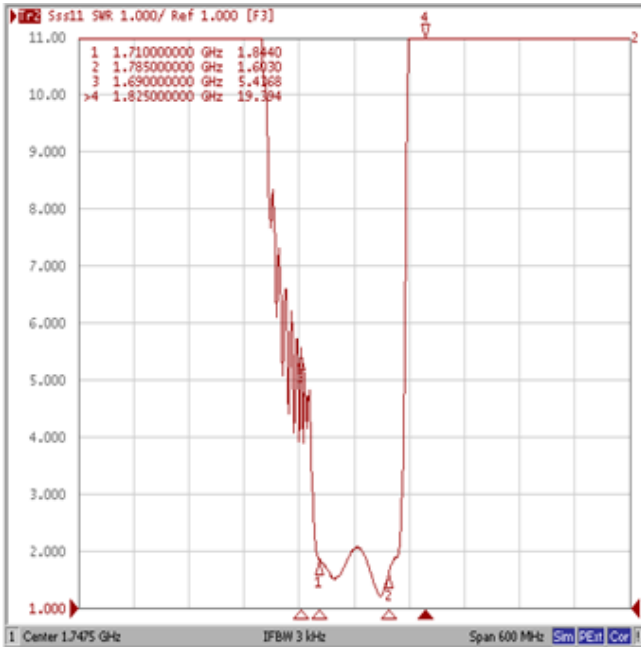
## Frequency Characteristics

### Frequency Response

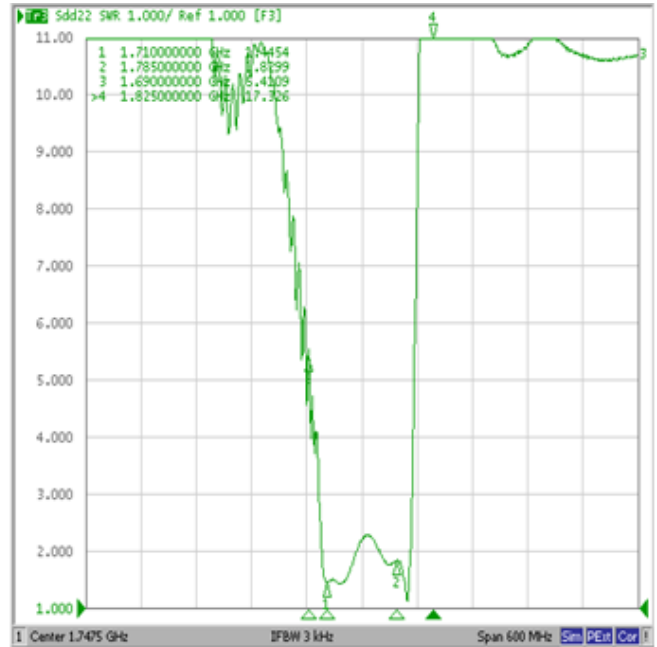


## VSWR

### Unbalance Input



### Balance Output



## Imbalance

### Amplitude Imbalance



### Phase Imbalance

