

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

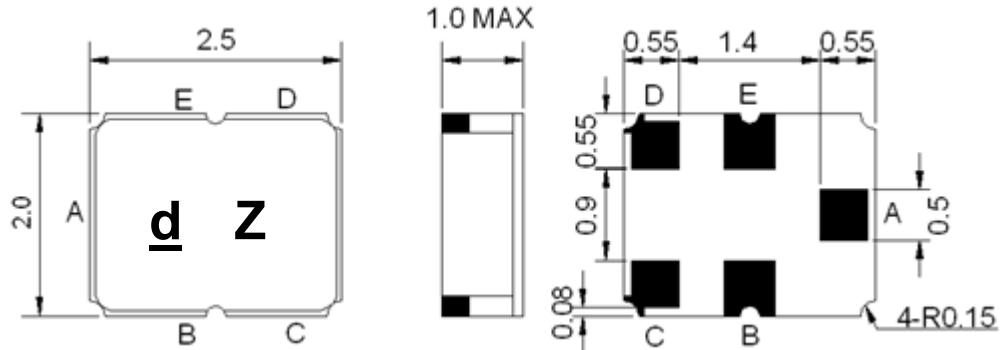
## Electrical Characteristics

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	-	200//18nH	-
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	-	1842.5	-
Insertion Loss within 1805~1880MHz	dB	-	2.9	4.0
Amplitude Ripple within 1805~1880MHz	dB <sub>p-p</sub>	-	1.0	2.1
<b>Attenuation: ( Reference level from 0 dB)</b>				
D.C. ~ 1200 MHz	dB	40	49	-
1200 ~ 1705 MHz	dB	30	34	-
1705 ~ 1785 MHz	dB	9	14	-
1920 ~ 1980 MHz	dB	10	22	-
1980 ~ 2200 MHz	dB	20	23.5	-
2200 ~ 3000 MHz	dB	30	36	-
3000 ~ 6000 MHz	dB	40	44	-
Input VSWR within 1805~1880 MHz	-	-	2.1	2.7
Output VSWR within 1805~1880 MHz	-	-	2.0	2.7
<b>Symmetry in band (referenced to the matched operating condition)</b>				
Output Amplitude balance ( S31 / S21 ) (1805 ~ 1880MHz)	dB	-2.0	0	2.0
Output phase balance (Φ(s31)-Φ(s21)+180) (1805 ~ 1880MHz)	degree	-12	0	12

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

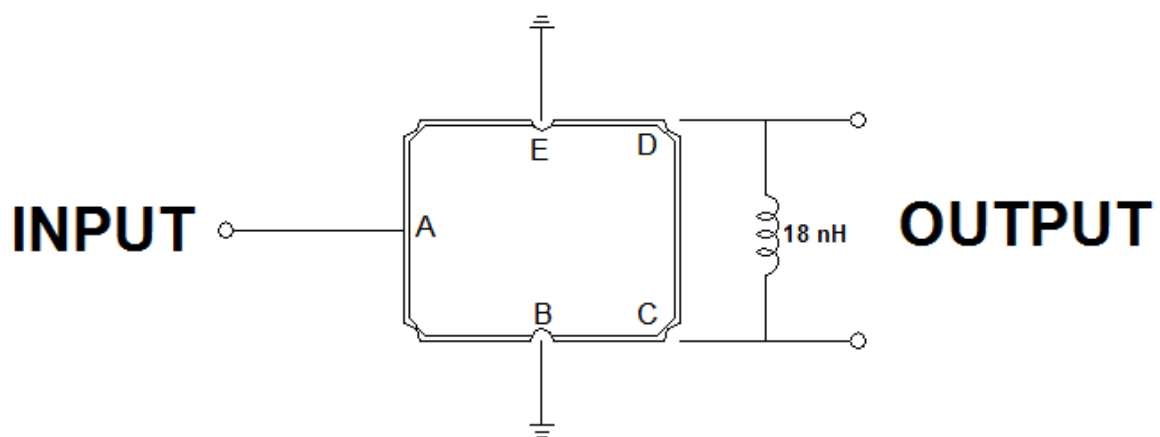
## Package Dimensions



Marking Descriptions	
<u>d</u>	Series Number
Z	Date Code (Year+Month)

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

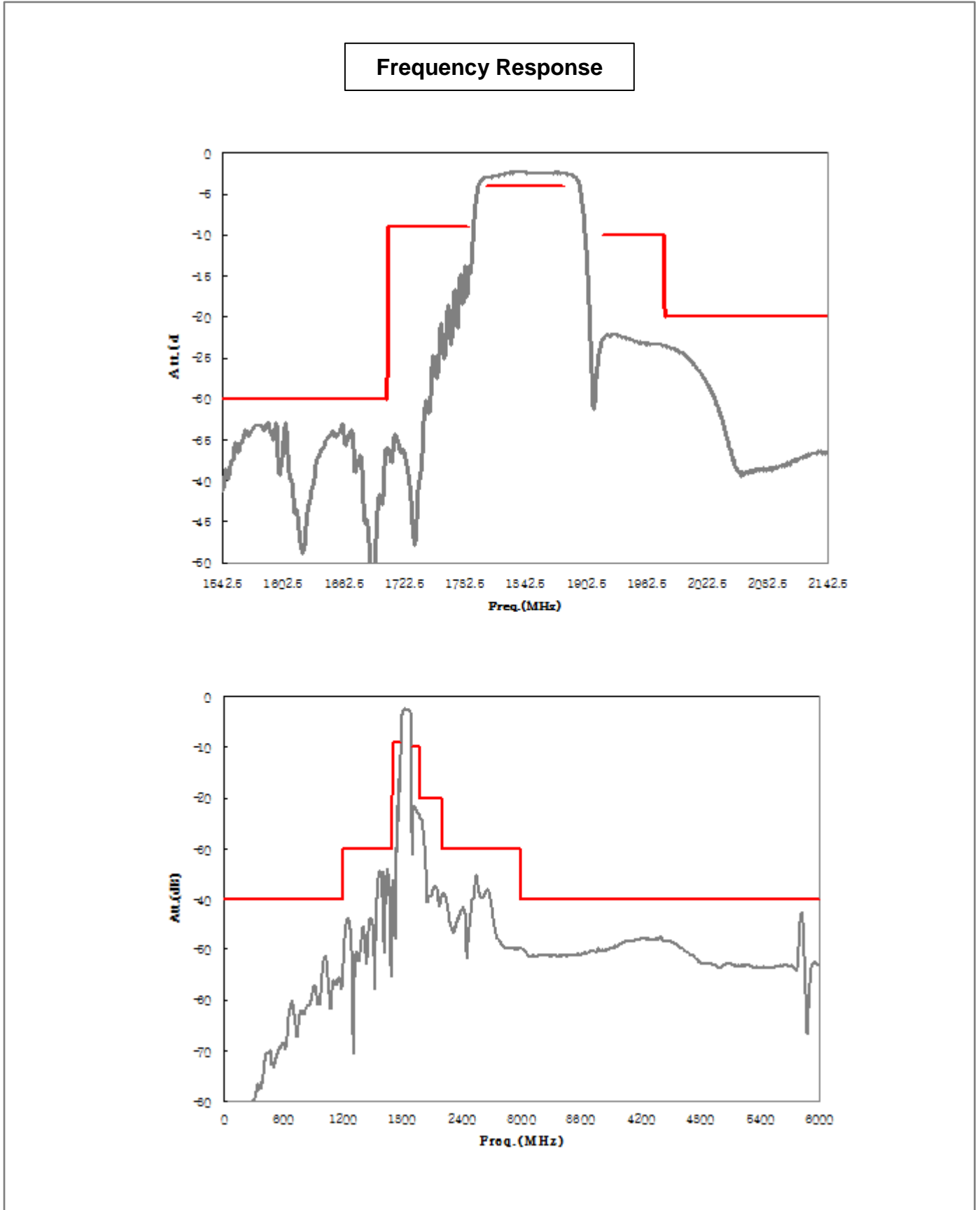
## Testing Environment



Source Impedance: 50  $\Omega$

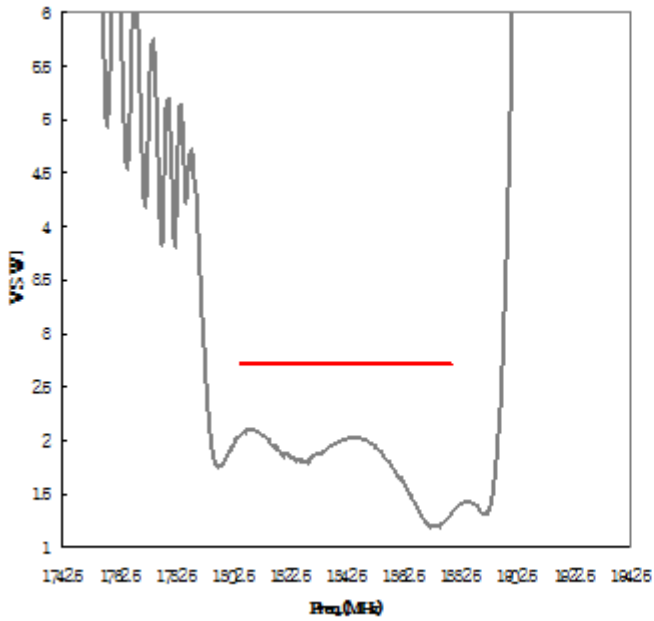
Load Impedance: 200  $\Omega$

**Frequency Characteristics**



**VSWR**

Unbalance Input



Balance Input

