



Total Solution Provider in Saw Device

SF-184203-C51

PCN, Balanced RF SAW Filter
Revision 0: March 2013



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

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Electrical Characteristics

Maximum Ratings

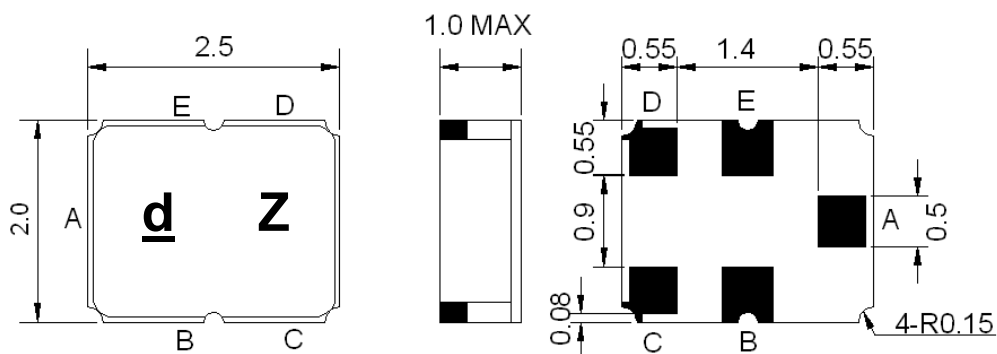
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	+75
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (unbalanced) ⁽¹⁾	Ω	-	50	-
Load Impedance (balanced) ⁽¹⁾	Ω	-	200//18nH	-
Package type & size	C51			
Length x Width	mm ²	-	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 _{p-p}	-	1.0	2.1
Attenuation:(Reference level from 0 dB)				
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
Symmetry in band (referenced to the matched operating condition)				
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

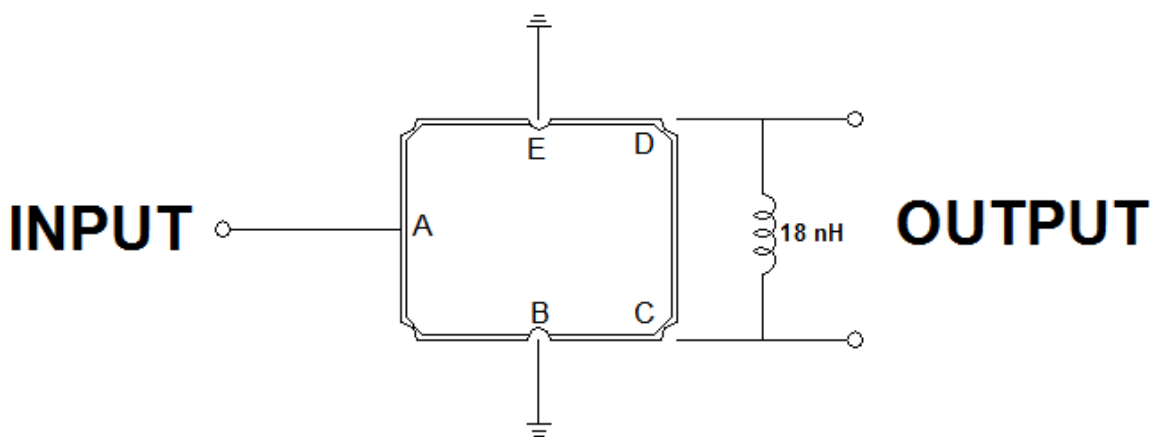
Package Dimensions



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

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

Testing Environment



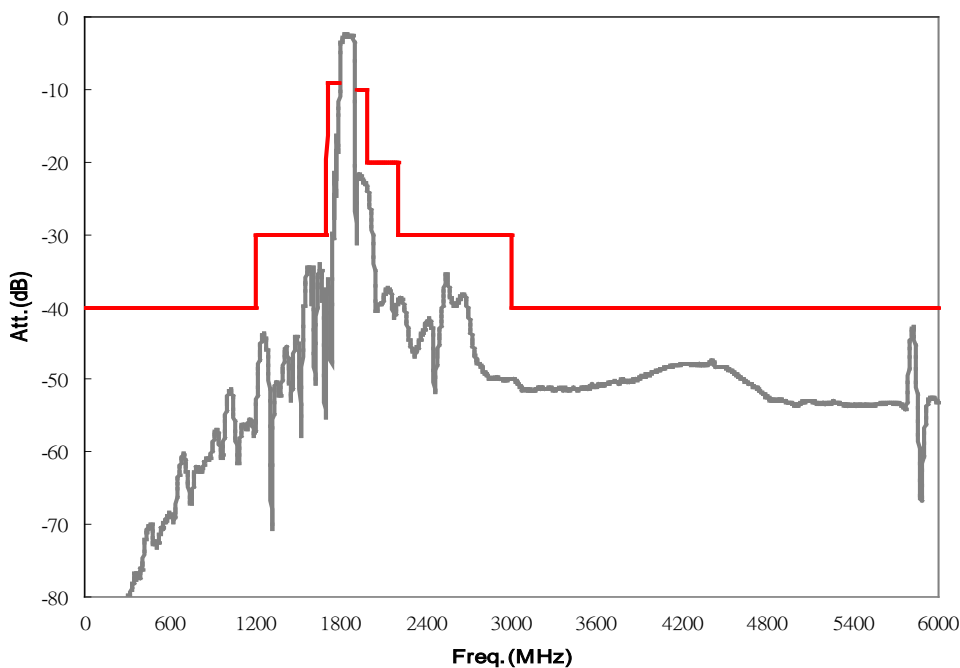
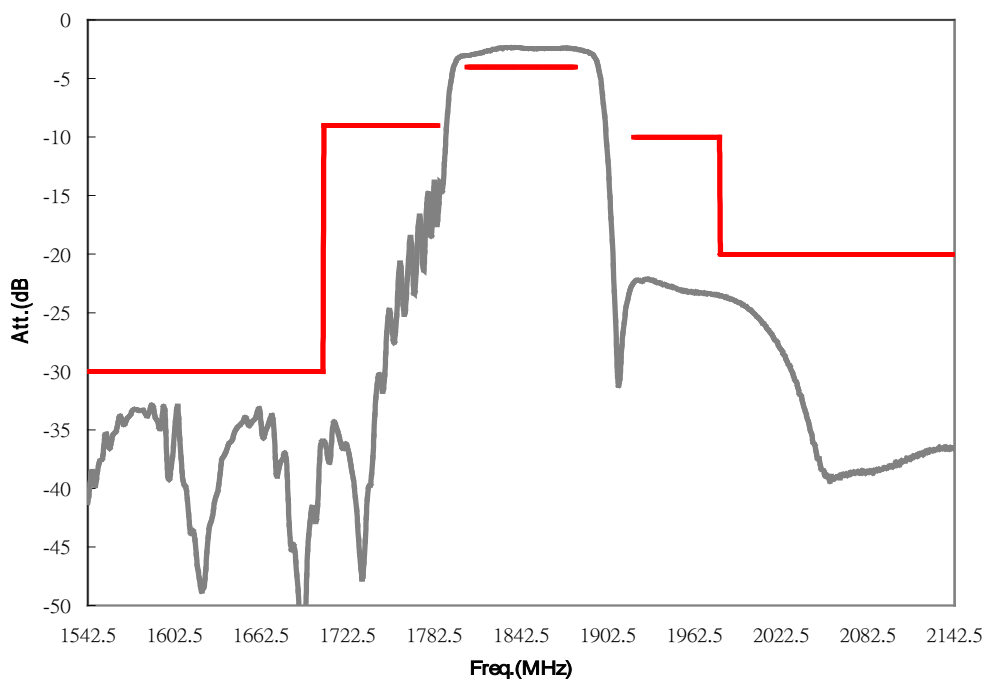
Source Impedance: 50 Ω

Load Impedance: 200 Ω



□ Frequency Characteristics

Frequency Response





VSWR

