- **Remote Control, RF SAW Filter**
- **Revision 0: November 2011**

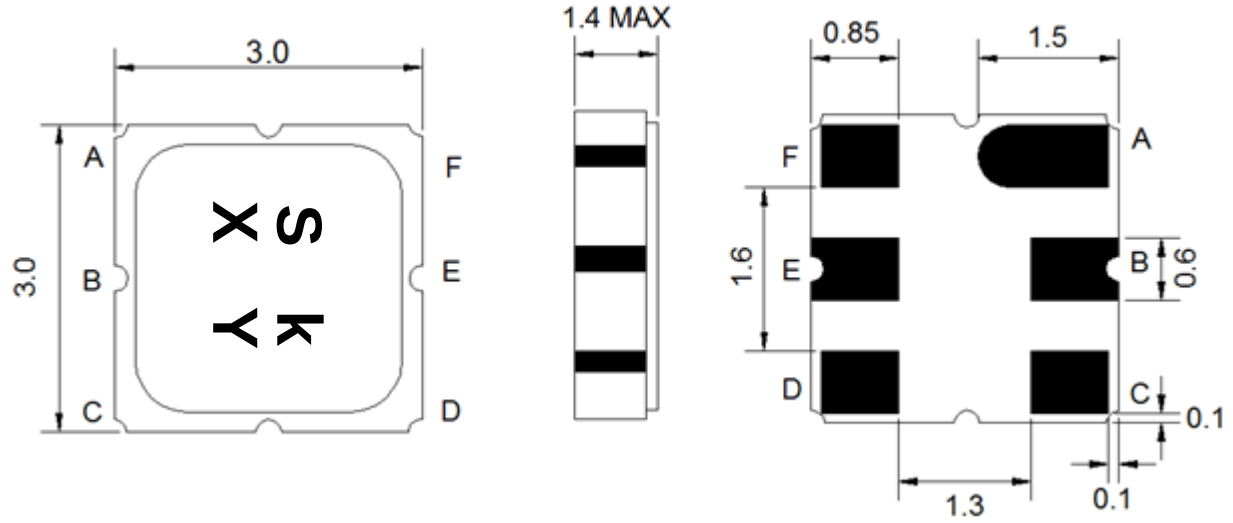
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	12
Maximum Input Power	dBm	-	-	10
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	-	-	1.4

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	-	836.5	-
Minimum insertion loss(IL)				
Exclude loss in matching elements *1)	**dB**	**-**	**2.6**	**4.0**
Include loss of matching elements(Q=62) *2)	**dB**	**-**	**3.3**	**5.0**
Passband (relative to ILmin) *1)				
835.5 ~ 837.5 MHz	dB_{p-p}	-	1.5	3.0
3dB Bandwidth	MHz	-	4.5	-
Attenuation(relative to ILmin) *1)				
20.00-785.00 MHz	dB	40	50	-
785.00-810.00 MHz	dB	30	38	-
810.00-829.00 MHz	dB	20	29	-
843.00-850.00 MHz	dB	15	24	-
850.00-910.00 MHz	dB	18	23	-
910.00-1000.0 MHz	dB	40	46	-

Notes: (1) With Matching Network .
*1)： The matching circuit is ideal by simulation.
*2)： The matching circuit is real by actual passive components.
0805 Coillcraft CS series chip conductor is used for inductor.
0402 muRata GRM series is used for capacitor.

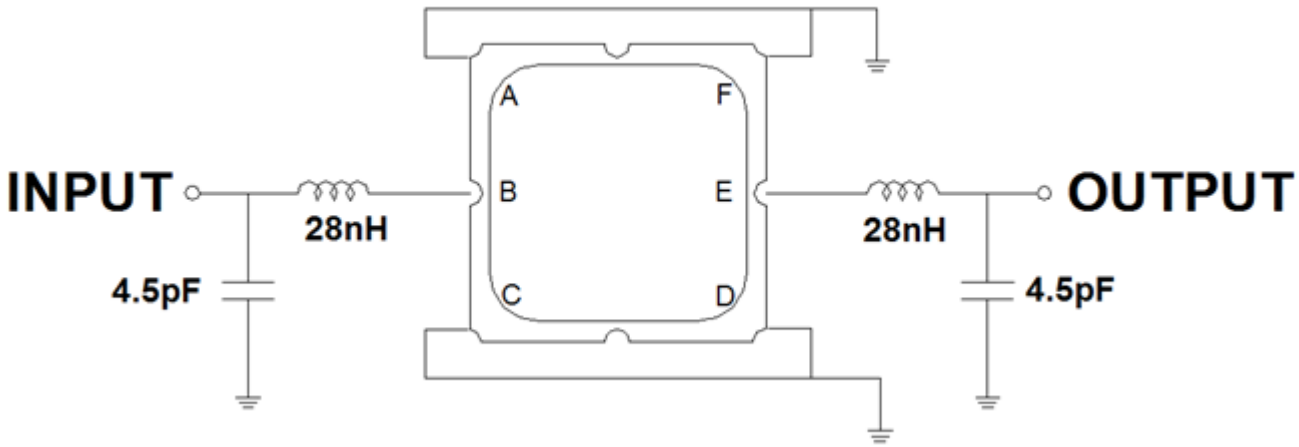
Package Dimensions



Marking Descriptions	
S	TCRF Application
k	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

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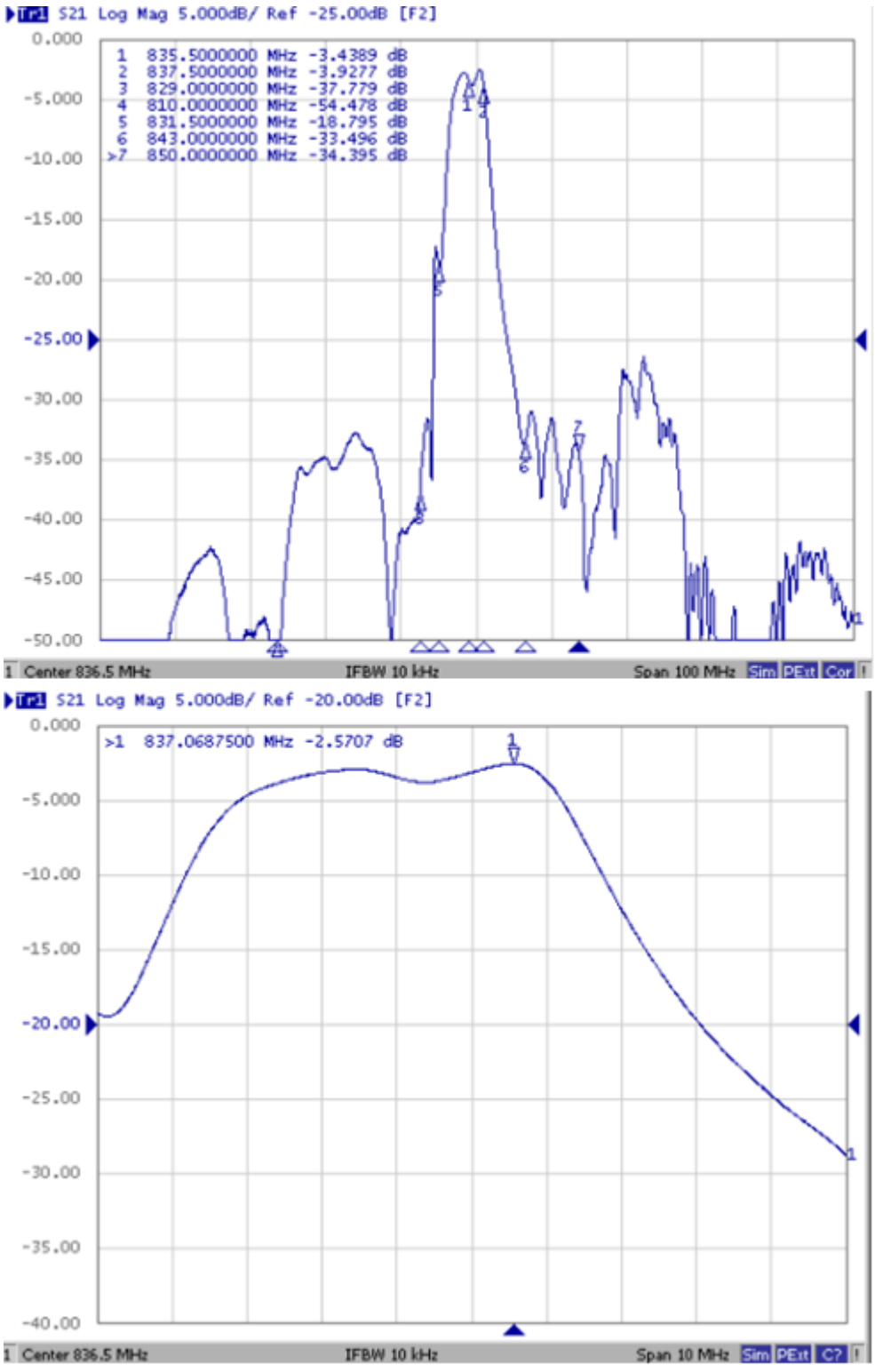
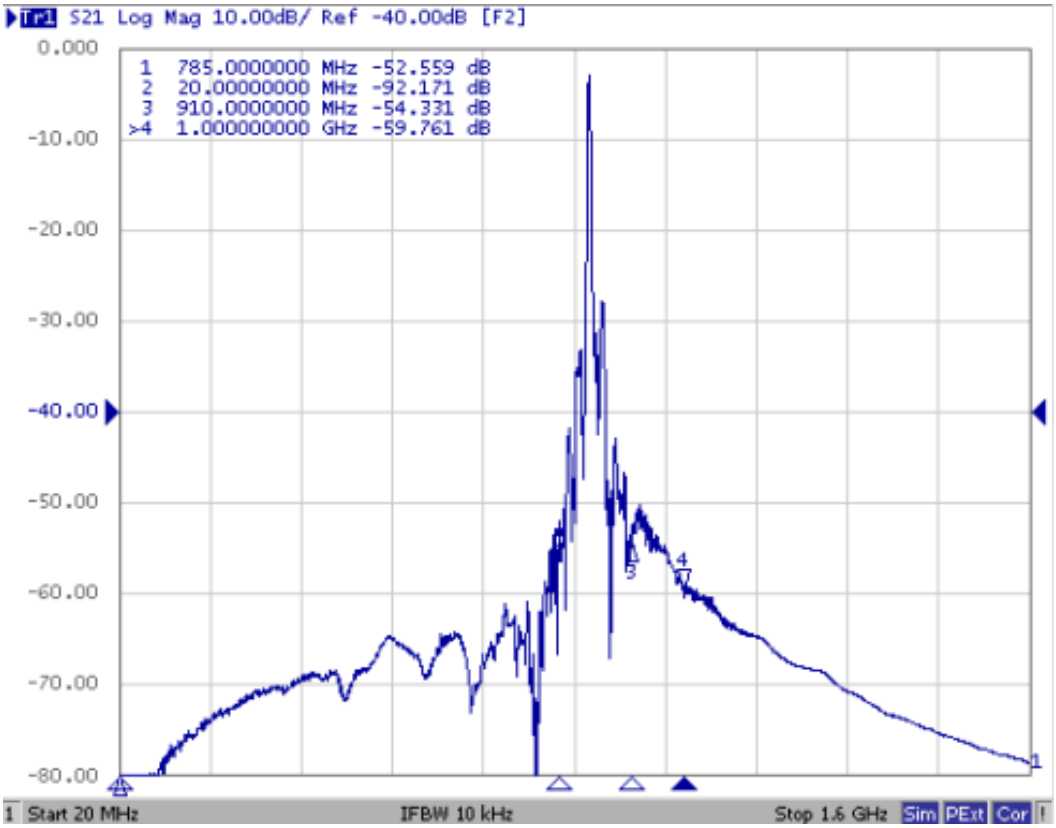
Frequency Characteristics

Frequency Response



Wide Span


Tr1 S21 Log Mag 10.00dB/ Ref -40.00dB [F2]
1 785.0000000 MHz -52.559 dB
2 20.00000000 MHz -92.171 dB
3 910.0000000 MHz -54.331 dB
>4 1.000000000 GHz -59.761 dB
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
1 Start 20 MHz
IFBW 10 kHz
Stop 1.6 GHz
Sim
PExt
Cor