- **317.50 MHz IF SAW Filter / 18.85 MHz Bandwidth**
- **Revision 0: October 2013**

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operation Temperature Range	°C	-5	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	-
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	S90			
Length x Width	mm²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	-	317.50	-
Insertion Loss at Fo	dB	-	31.0	32.5
Group Delay Variation at Fo ± 9.0 MHz	nsec	-	40	80
Absolute Delay at Fo	usec	-	2.00	-
Passband Ripple Variation at Fo ± 9.0 MHz	dB	-	0.65	1.3
Bandwidth at -1dB	MHz	18.70	18.85	-
Bandwidth at -3dB	MHz	-	19.32	-
Bandwidth at -30dB	MHz	-	20.94	21.00
Bandwidth at -40dB	MHz	-	21.23	-
Ultimate Rejection	dB	42	48	-
Temperature Coefficient	ppm/°C	-	-18	-

Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

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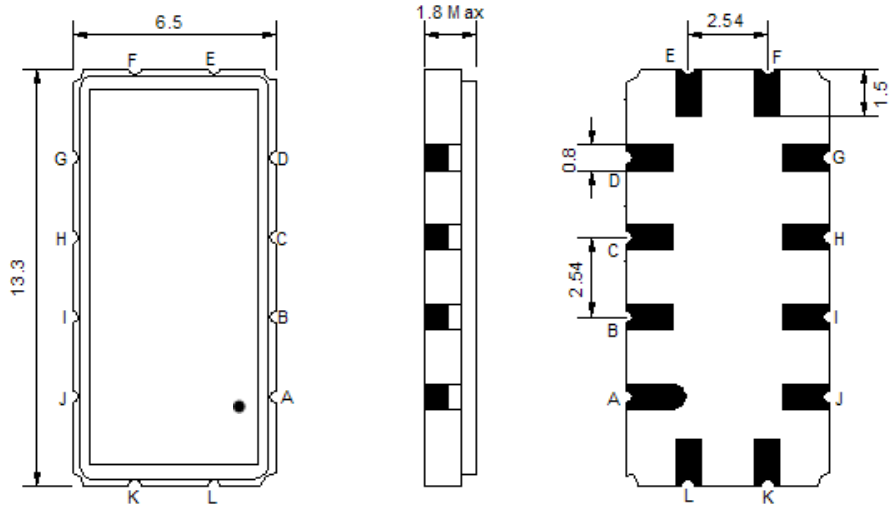
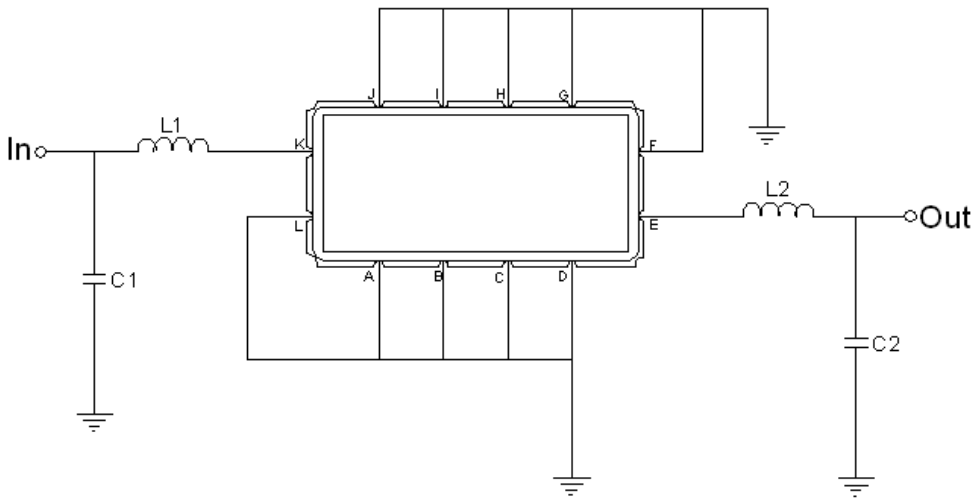
Package Dimensions



① TRANSKO: Brand
② TF-031701: Model Name
③ X : Date Code (Year)
④ Y : Date Code (Month)
⑤ Z : Date Code (Date)
• : Index Dot

Pin Description	
A, B, C, D, F, G, H, I, J, L	Ground
K	Input
E	Output

Testing Environment



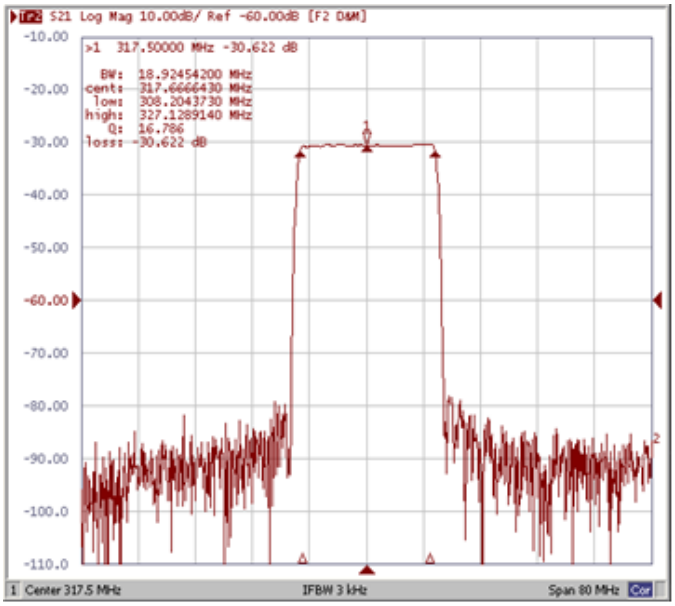
Test Fixture & Values	
Input	L1 = 8.2nH, C1=20pF
Output	L2 = 8.2nH, C2=20pF
Source/Load Impedance	50 Ω

Frequency Characteristics

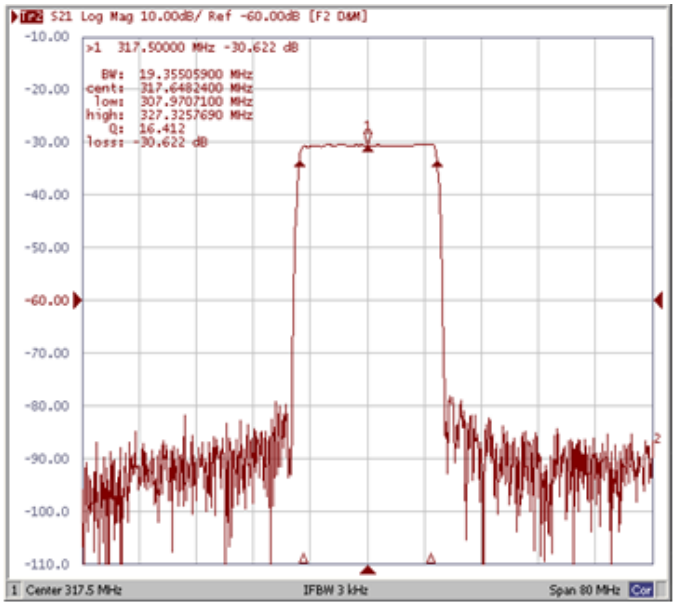
Frequency Response

Operating Temperature: +25°C

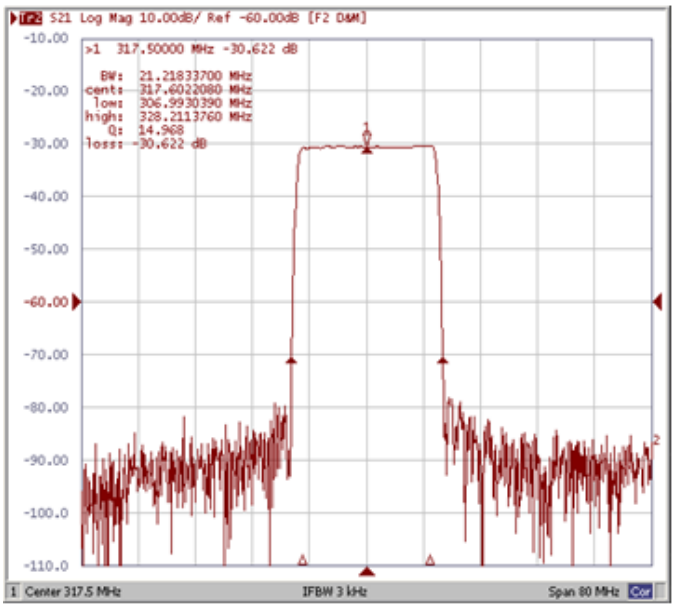
Bandwidth at –1.0 dB



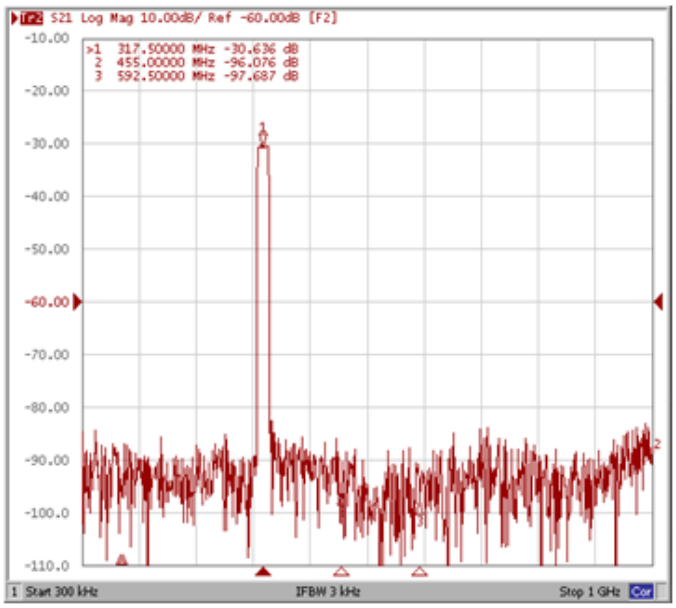
Bandwidth at –3.0 dB



Bandwidth at –30.0 dB



Bandwidth at –40.0 dB



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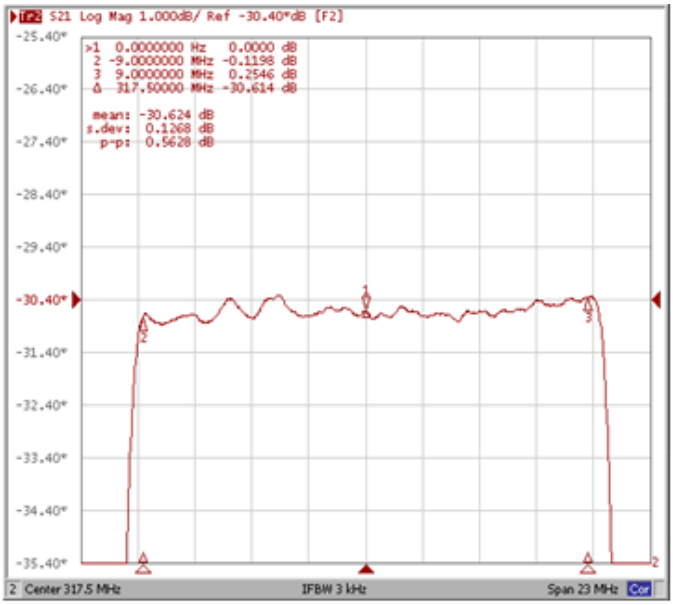
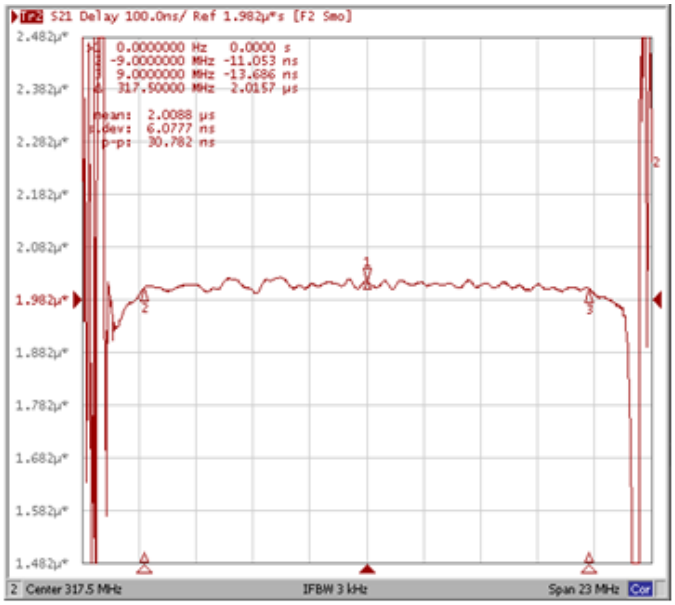
Frequency Response

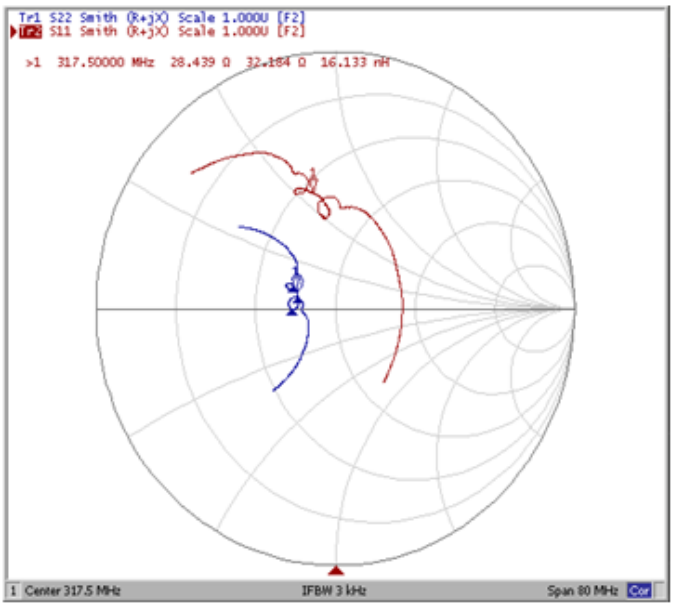
Ripple Variation Fo±9.0MHz



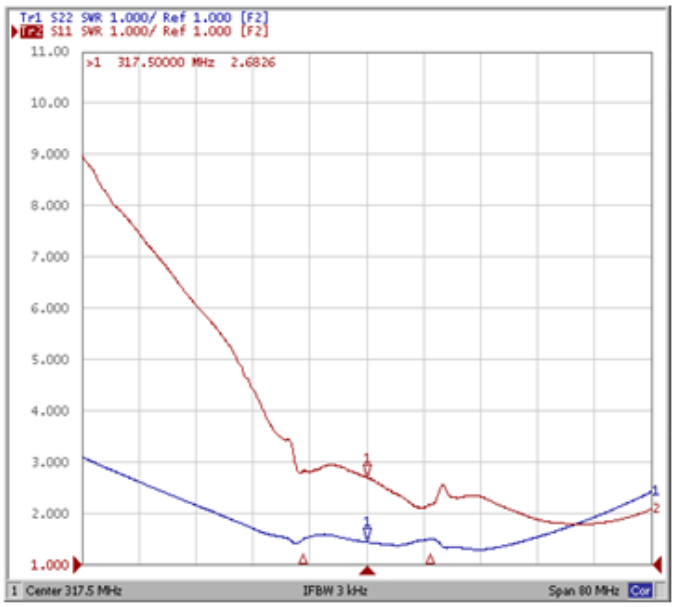
Group Delay Variation Fo±9.0MHz



Smith Chart



VSWR



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