- **115.00 MHz IF SAW Filter / 17.08 MHz Bandwidth**
- **Revision 0: 19 Nov. 2009**

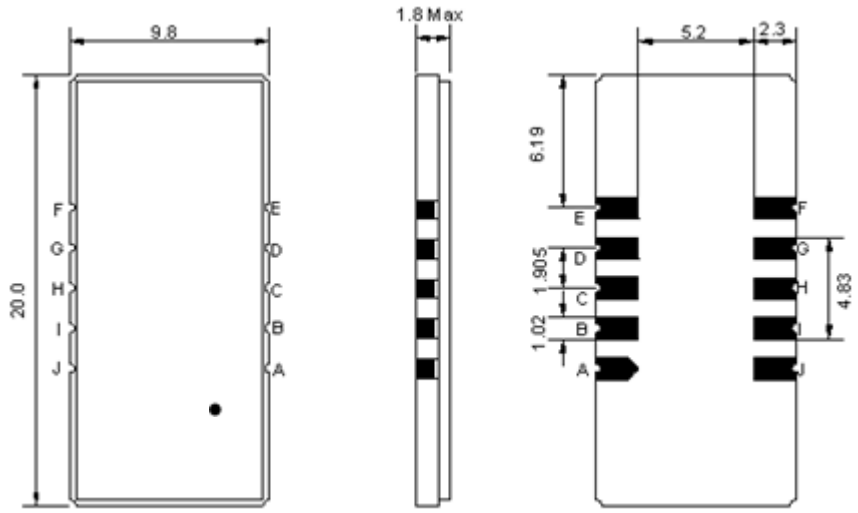
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operating Temperature Range	°C	-5	-	70
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	D1			
Length x Width	mm²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	-	115.0	-
Insertion Loss at Fo	dB	-	13.0	15.0
Group Delay Variation at Fo ± 7.5 MHz	nsec	-	43	80
Absolute Delay at Fo	usec	-	0.99	-
Passband Ripple Variation at Fo ± 7.5MHz	dB	-	0.42	1.00
Bandwidth at -1dB	MHz	16.80	17.08	-
Bandwidth at -3dB	MHz	-	17.84	-
Bandwidth at -40dB	MHz	-	20.82	21.30
Ultimate Rejection	dB	40	47	-
Temperature Coefficient	ppm/°C	-	-86	-

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.

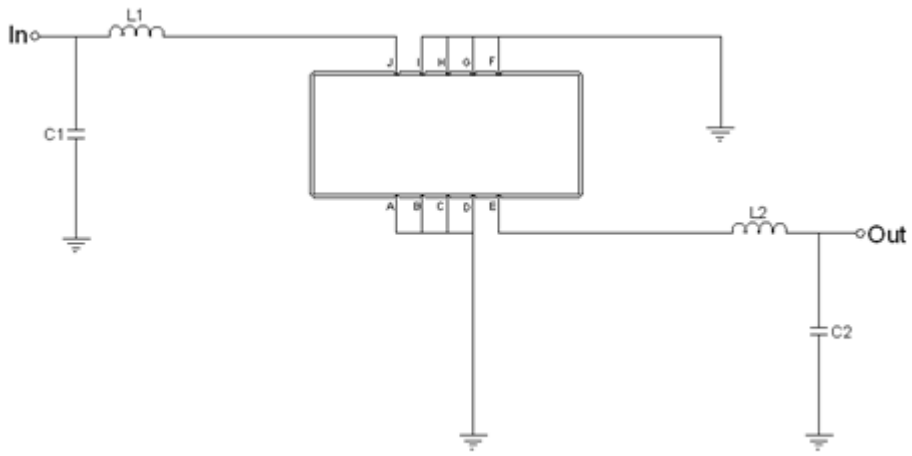
Package Dimensions



① TRANSKO: Brand
② TL11517A: 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	Ground
J	Input
E	Output

Testing Environment

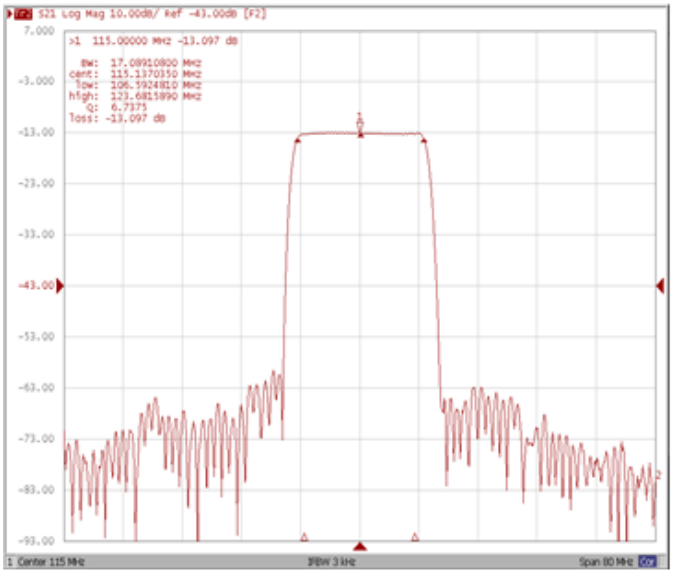


Test Fixture & Values	
Input	L1 = 47 nH, C1 = 62 pF
Output	L2 = 33 nH, C2 = 56 pF
Source/Load Impedance	50 Ω

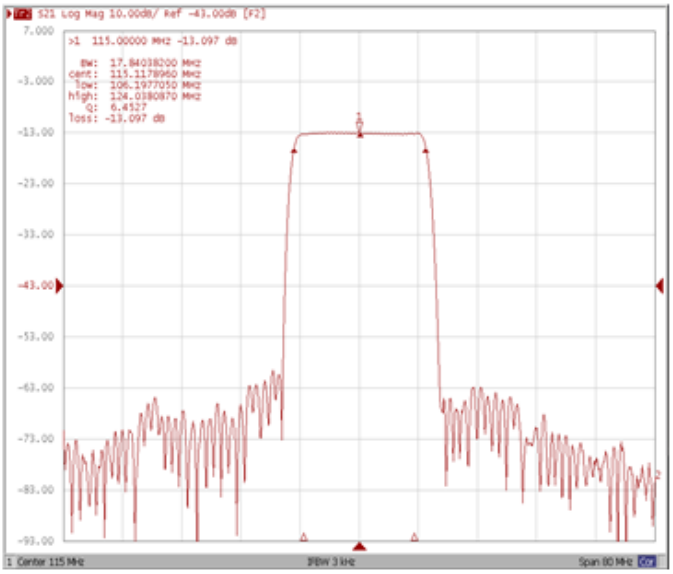
Frequency Characteristics

Frequency Response

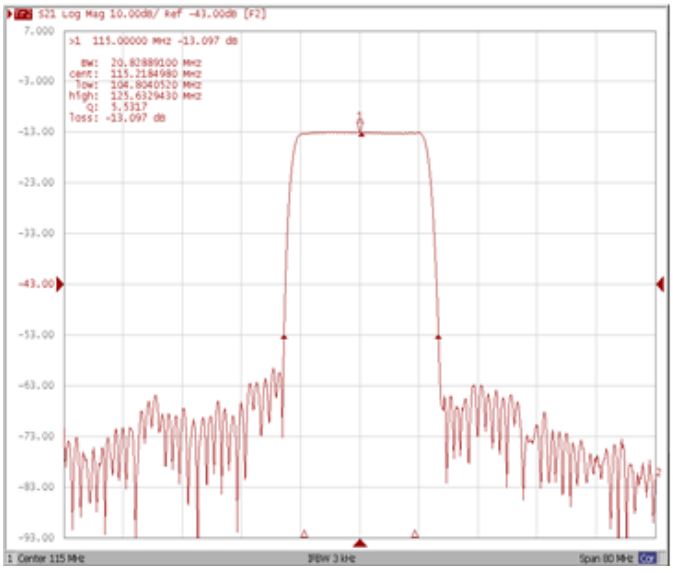
Bandwidth at –1.0 dB



Bandwidth at –3.0 dB



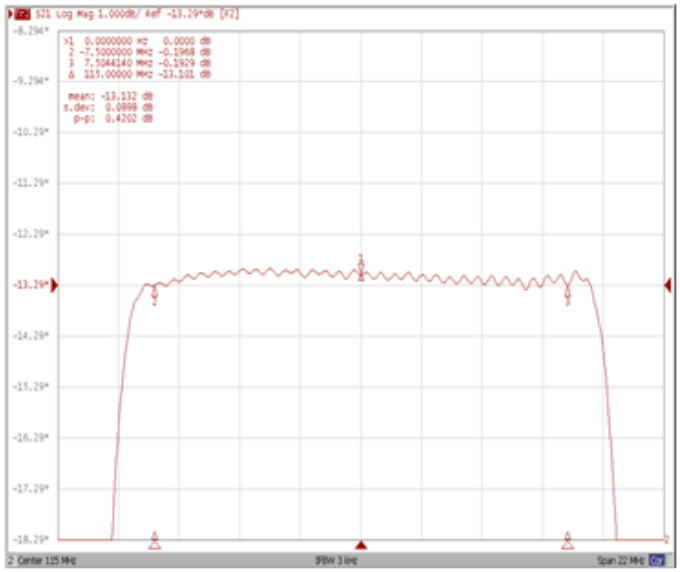
Bandwidth at –40.0 dB



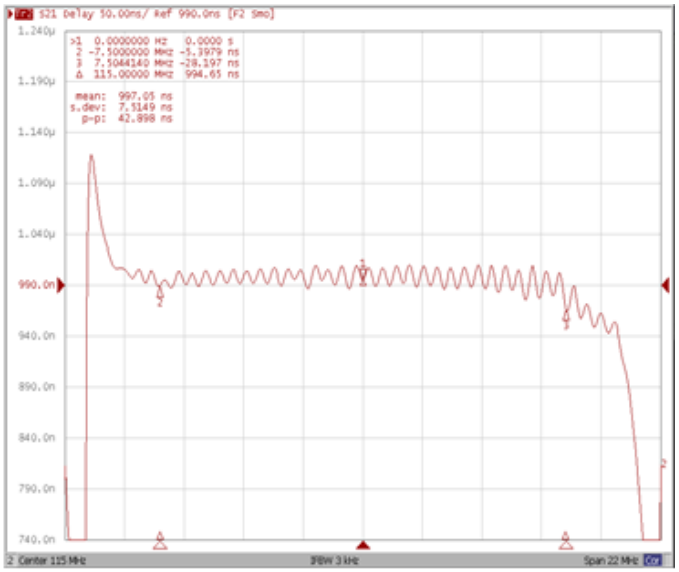
Wide-Band

Frequency Response

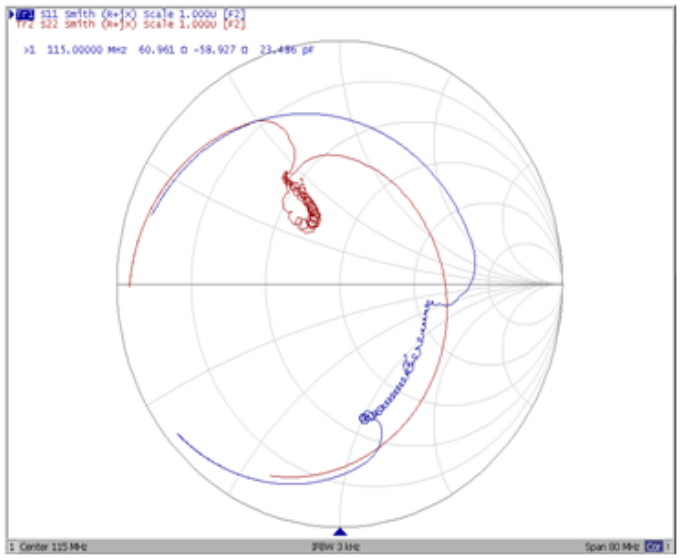
Ripple Variation Fo±7.50MHz



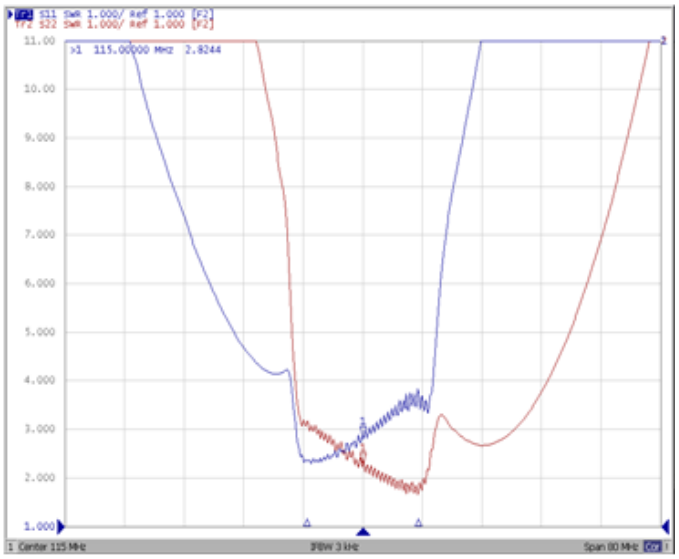
Group Delay Variation Fo±7.50MHz



Smith Chart



VSWR



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