- **115.00 MHz IF SAW Filter / 29.94 MHz Bandwidth**
- **Revision 0: 17. Jun. 2008**

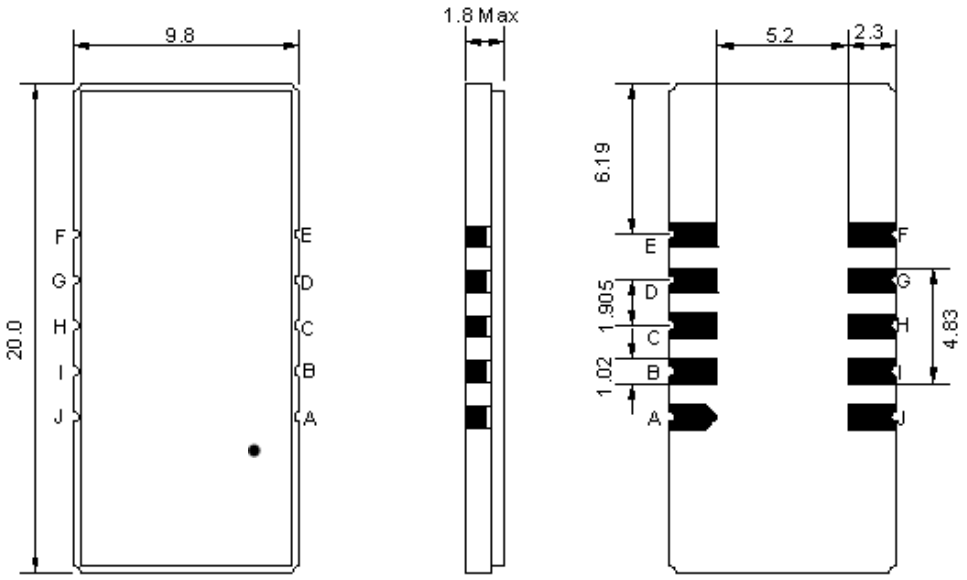
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operation Temperature Range	°C	0	-	60
Storage Temperature Range	°C	-30	-	80
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	114.85	115.00	115.15
Insertion Loss at Fo	dB	-	24.5	27.0
Group Delay Variation (Fo±14.5MHz)	ns	-	30	80
Absolute Delay	us	-	1.85	-
Passband Ripple (Fo±14.5MHz)	dB	-	0.7	-
Bandwidth at -1dB	MHz	29.80	29.94	-
Bandwidth at -3dB	MHz	-	30.30	-
Bandwidth at -40dB	MHz	-	31.95	32.10
Ultimate Rejection	dB	-	52	-
Temperature coefficient	ppm/°C	-	-72	-

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.

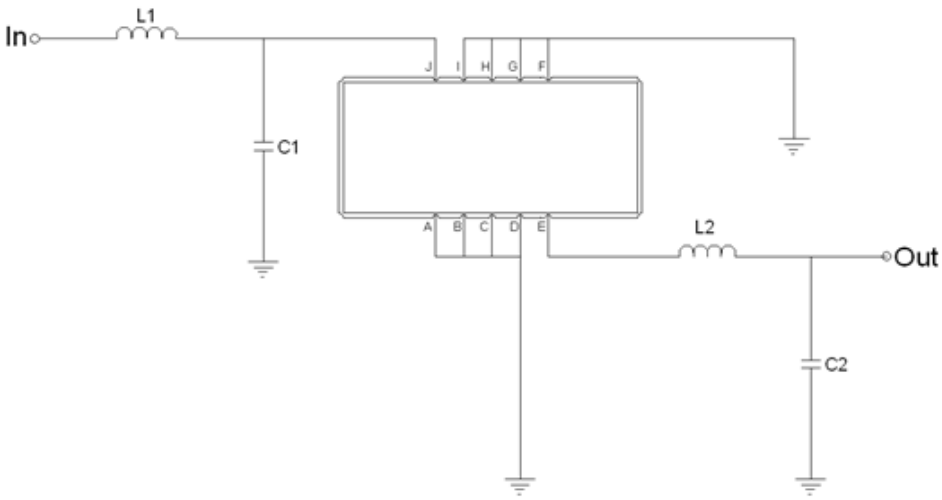
Package Dimensions



① **TRANSKO: Brand**
② **TA11530A: 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

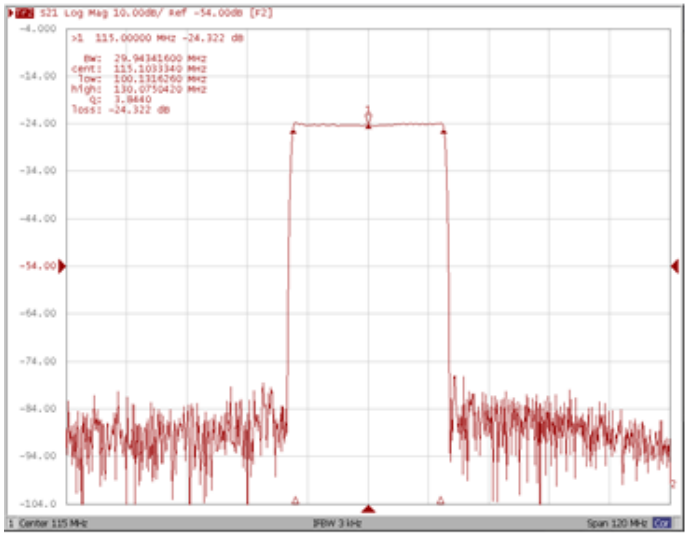


Test Fixture & Values	
Input	L1=150nH, C1=7pF
Output	L2=150nH, C2=16pF
Source/Load Impedance	50 Ω

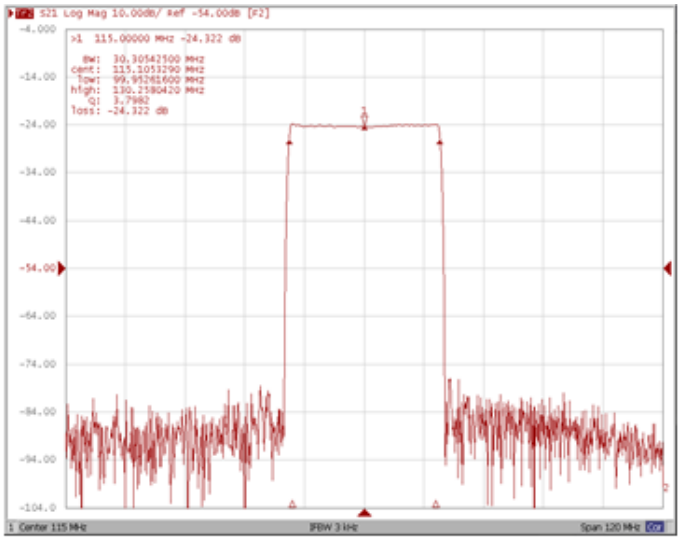
Frequency Characteristics

Frequency Response

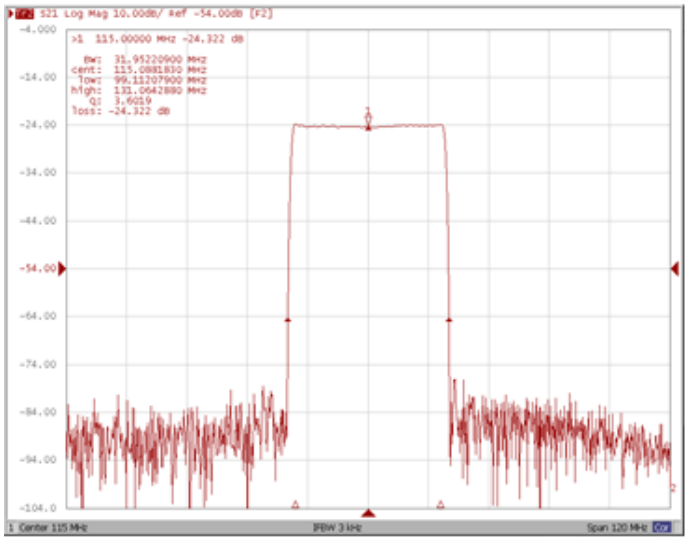
Bandwidth at –1.0 dB



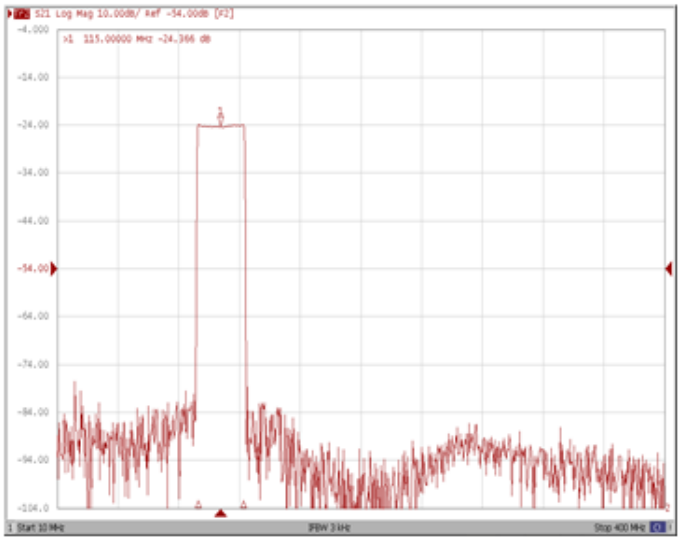
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB

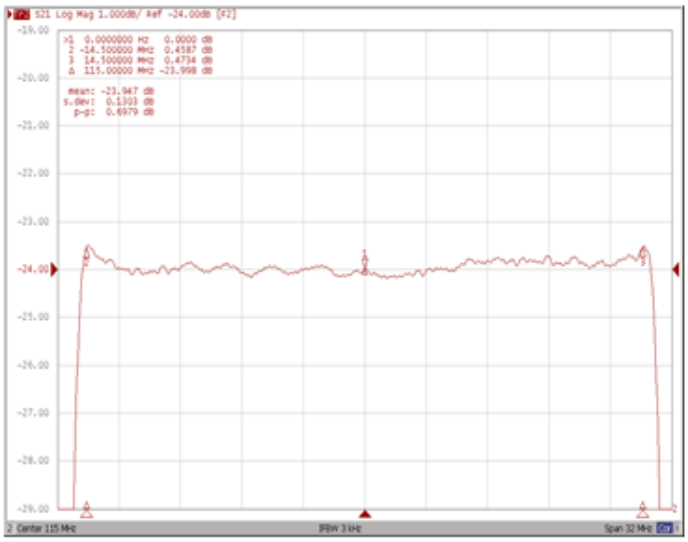


Wide-Band

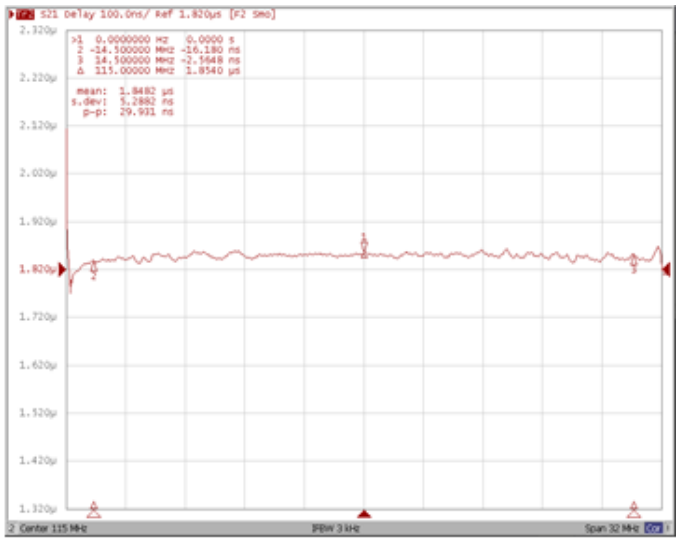


Frequency Response

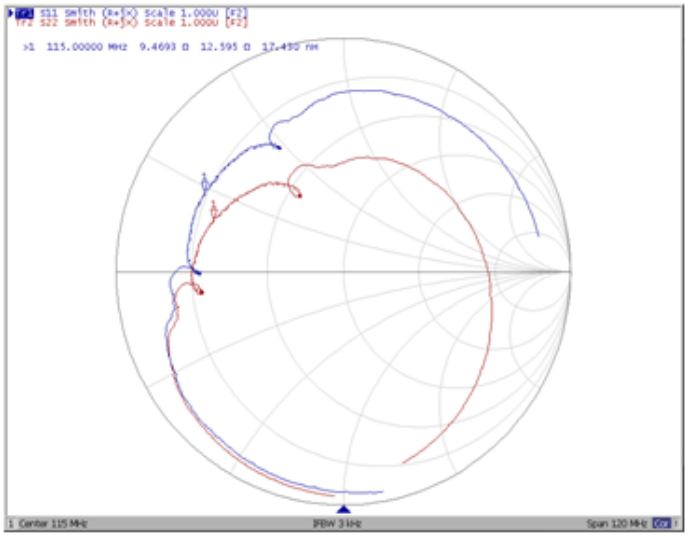
Ripple Variation Fo±14.5MHz



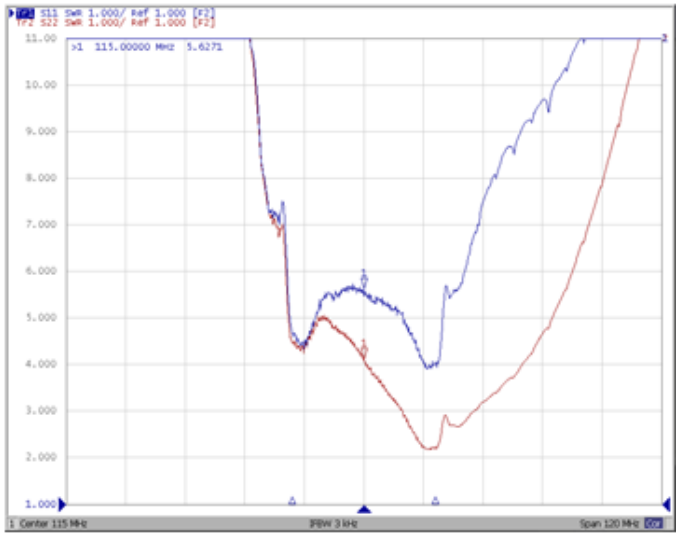
Group Delay Variation Fo±14.5MHz



Smith Chart



VSWR



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