- **155.0 MHz IF SAW Filter / 9.39 MHz Bandwidth**
- **Revision 0: 12. Jan. 2012**

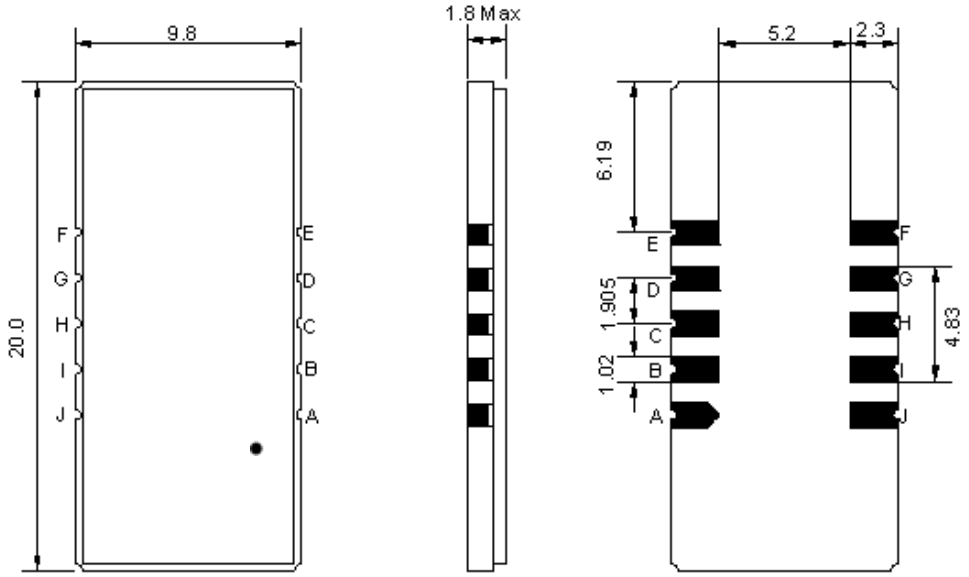
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operation Temperature Range	°C	-	25	-
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	-	155.0	-
Insertion Loss at Fo	dB	-	25.4	27.0
Group Delay Variation (Fo±4.5MHz)	nsec	-	103	200
Absolute Delay at Fo	usec	-	2.30	-
Passband Ripple Variation (Fo±4.5MHz)	dB	-	0.65	1.20
Bandwidth at -1dB	MHz	9.10	9.39	-
Bandwidth at -3dB	MHz	-	9.60	-
Bandwidth at -40dB	MHz	-	10.59	10.70
Ultimate Rejection	dB	40	45	-
Relative Attenuation				
@edge ±0.5MHz	dB	-	10	-
@edge ±0.555MHz	dB	-	15	-
Temperature Coefficient	ppm/°C	-	-20	-

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.

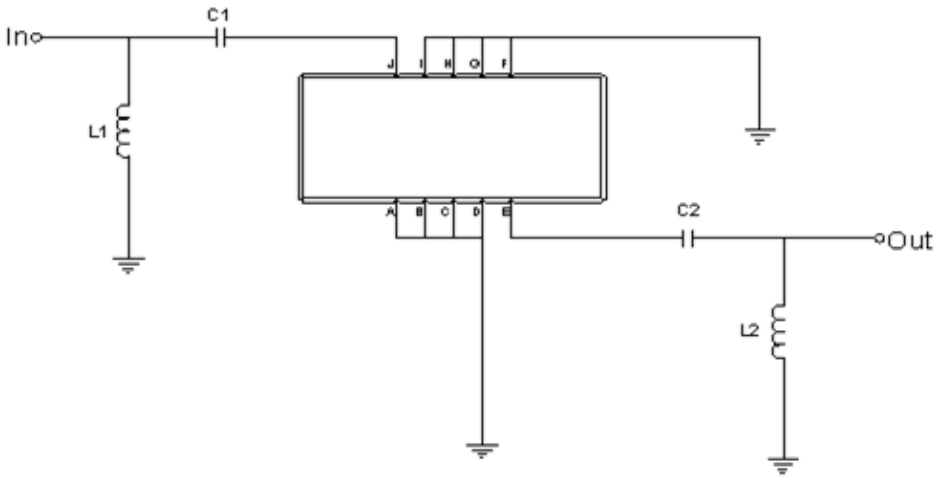
Package Dimensions



① **TRANSKO: Brand**
② **TA15509A: 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

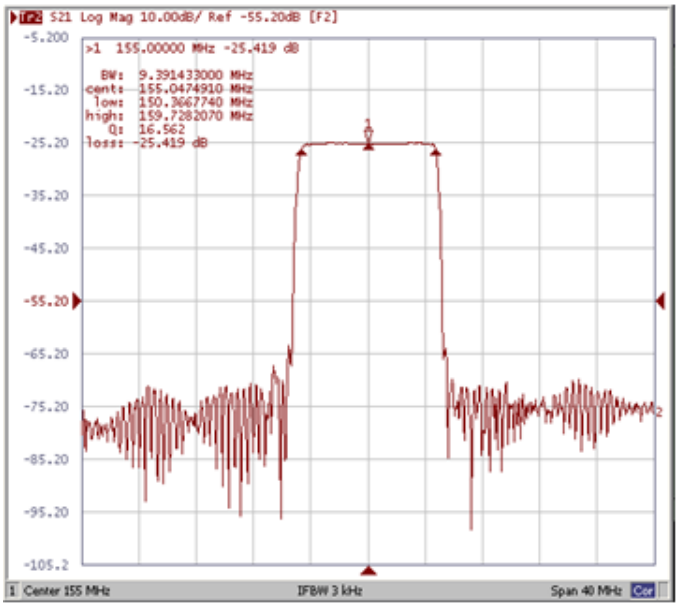


Test Fixture & Values	
Input	L1 = 39 nH, C1 = 56 pF
Output	L2 = 33 nH, C2 = 47 pF
Source/Load Impedance	50 Ω

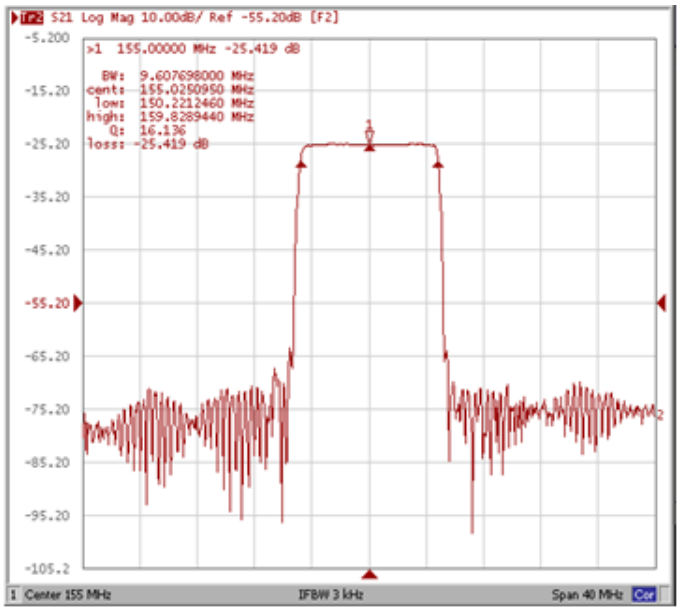
Frequency Characteristics

Frequency Response

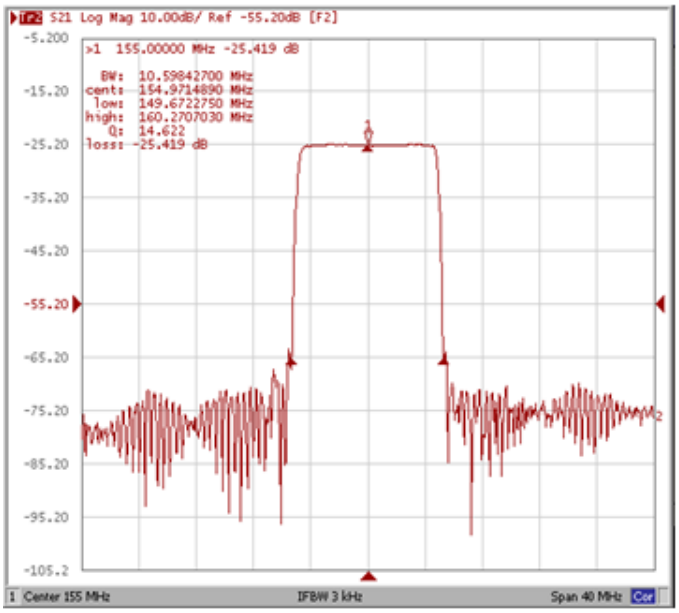
Bandwidth at –1.0 dB



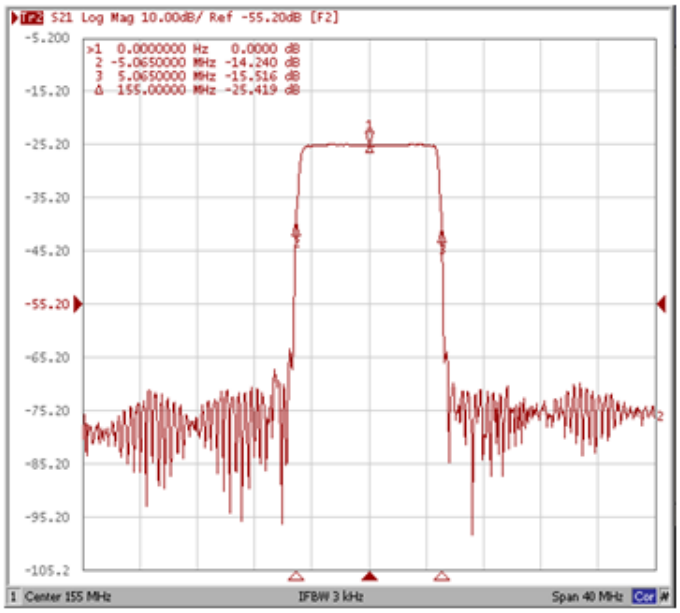
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB

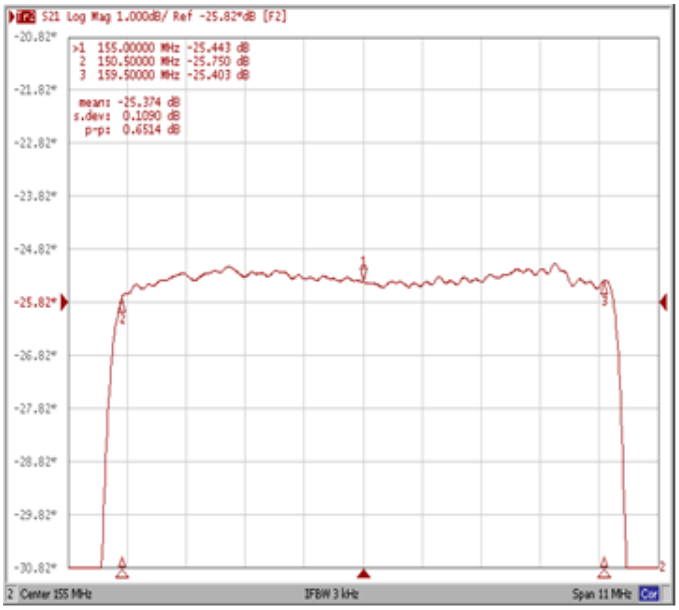


Relative Attenuation @edge ±0.555MHz

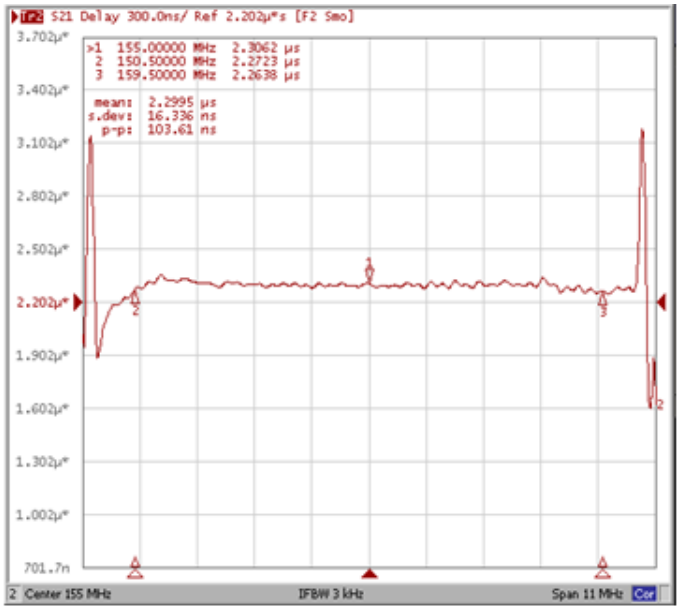


Frequency Response

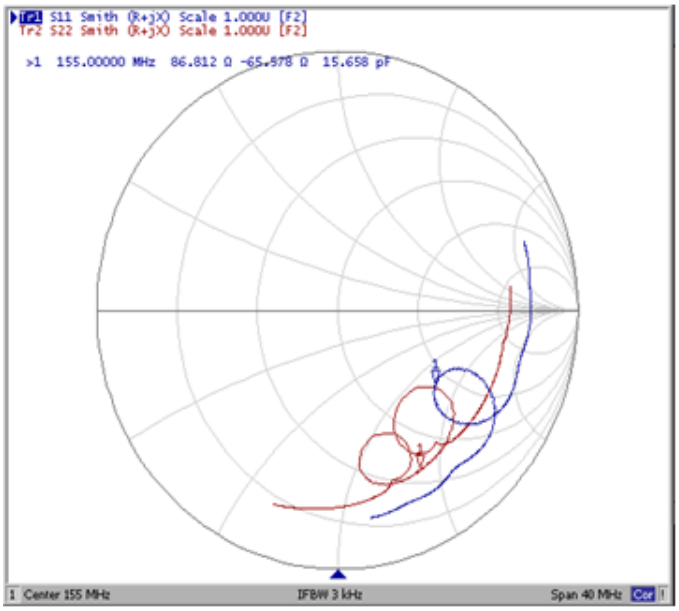
Ripple Variation Fo±4.5MHz



Group Delay Variation Fo±4.5MHz



Smith Chart



VSWR