- **55.0 MHz IF SAW Filter / 9.79 MHz Bandwidth**
- **Revision 0: 10. MAR. 2009**

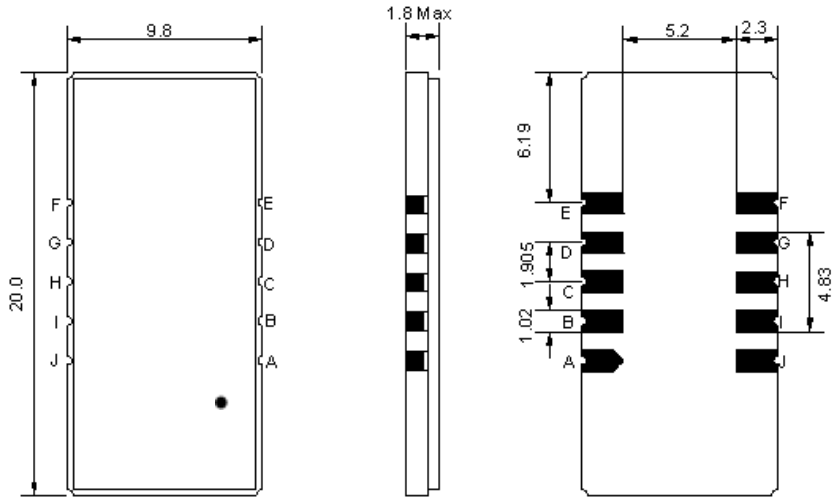
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operation Temperature Range	°C	-10	-	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	-	55.0	-
Insertion Loss at Fo	dB	-	24.0	26.0
Group Delay Variation (Fo±4.52MHz)	ns	-	30	60
Absolute Delay Time at Fo	us	-	2.34	-
Temperature Coefficient	ppm/°C	-	-72	-
Amplitude Ripple (Fo±4.52MHz)	dB	-	0.38	0.90
Bandwidth at -1dB	MHz	9.60	9.79	-
Bandwidth at -3dB	MHz	-	10.10	-
Bandwidth at -40dB	MHz	-	11.50	11.65
Bandwidth at -50dB	MHz	-	11.62	-
Ultimate Rejection	dB	50	53	-

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.

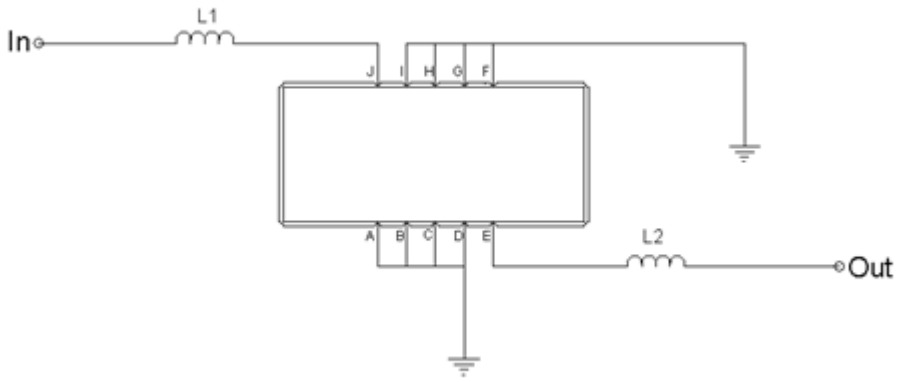
Package Dimensions



② TRANSKO: Brand
② TA05509C: 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

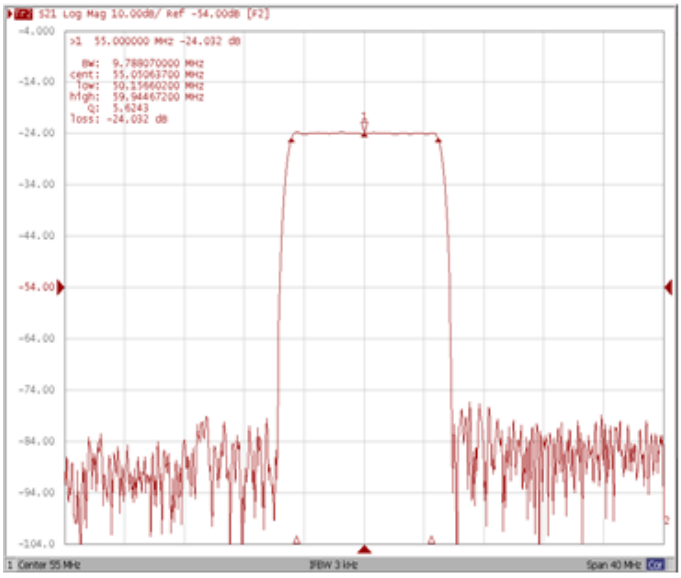


Test Fixture & Values	
Input	L1=22nH
Output	L2=22nH
Source/Load Impedance	50 Ω

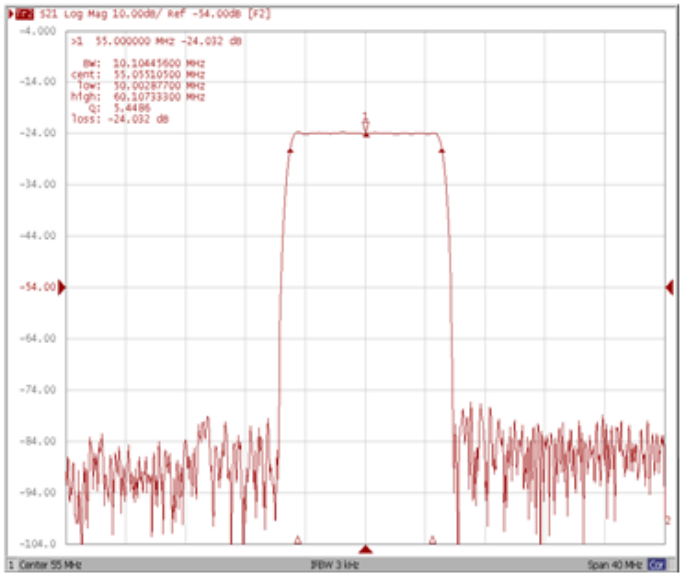
Frequency Characteristics

Frequency Response

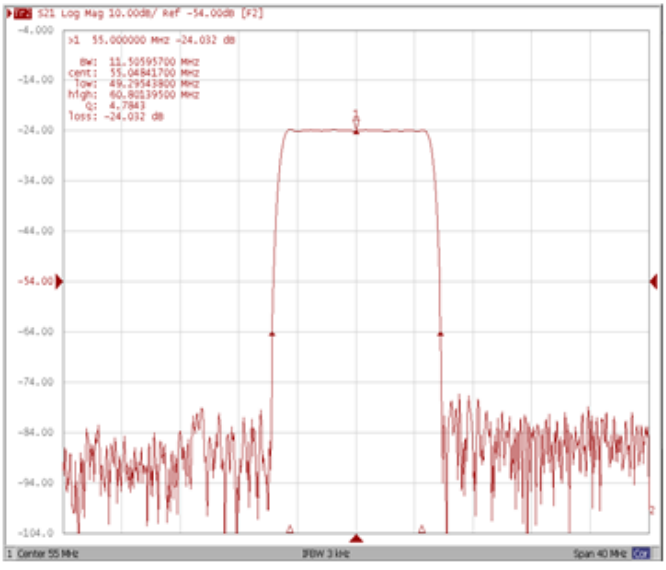
Bandwidth at –1.0 dB



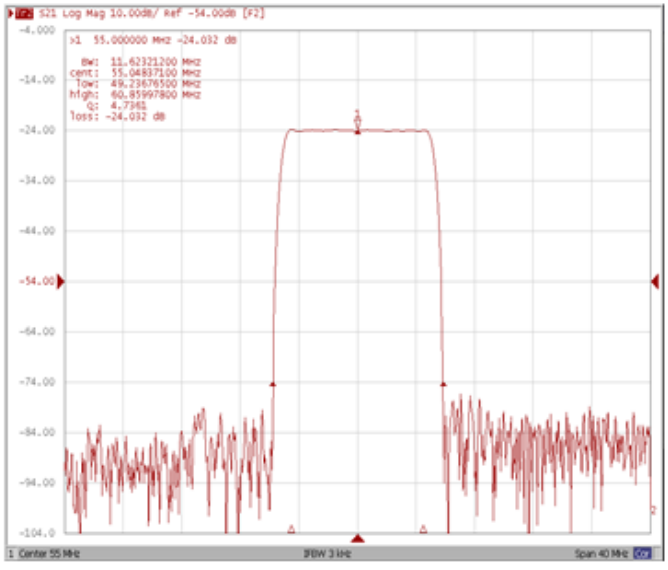
Bandwidth at –3.0 dB



Bandwidth at -40.0 dB

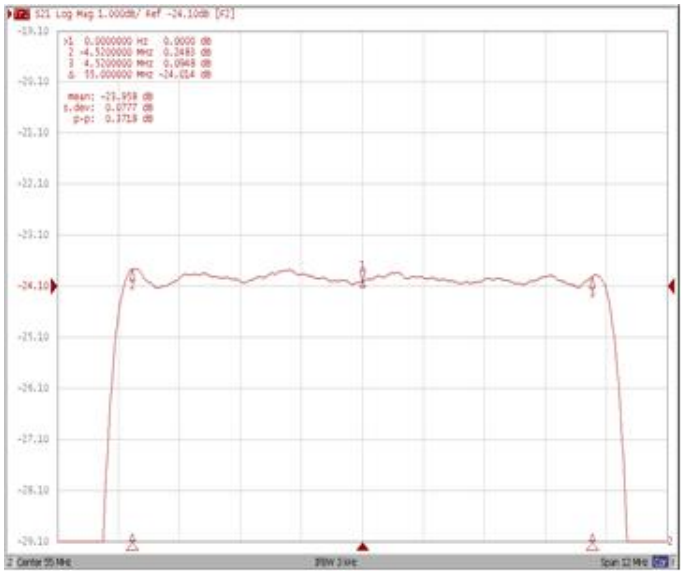


Bandwidth at –50.0 dB

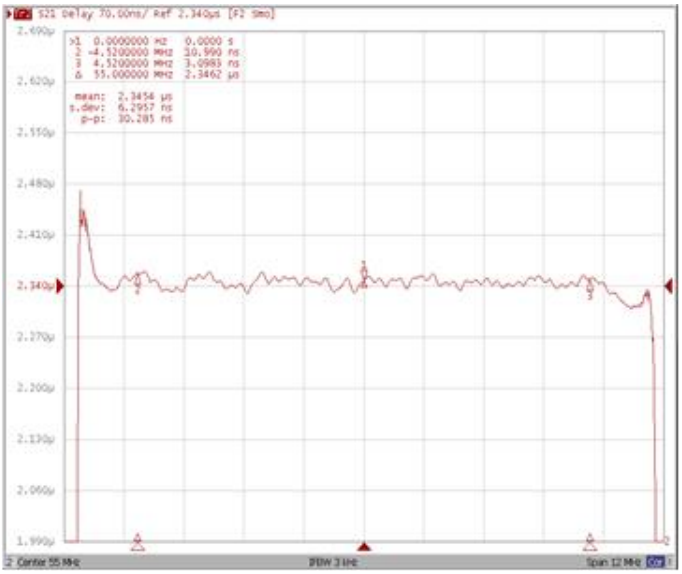


Frequency Response

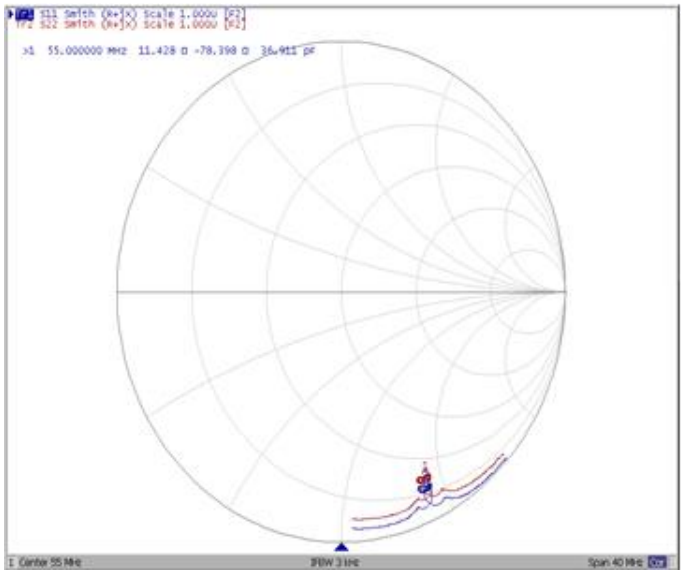
Ripple Variation Fo±4.52MHz



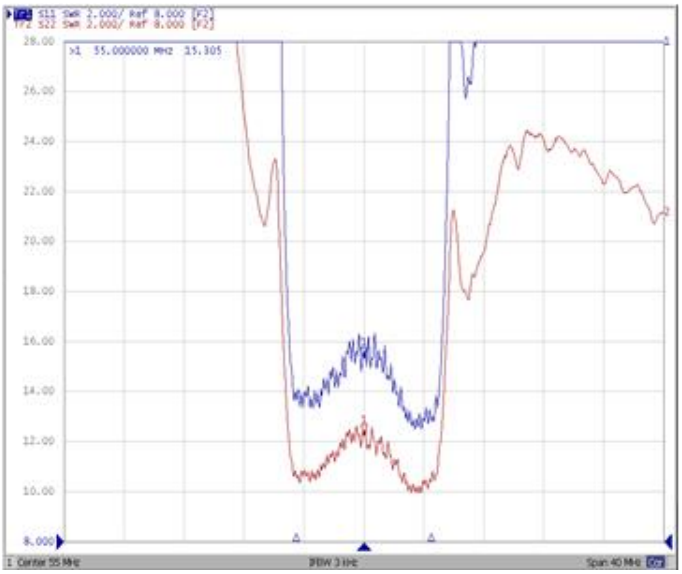
Group Delay Variation Fo±4.52MHz



Smith Chart



VSWR



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