- **145.00 MHz IF SAW Filter / 9.35 MHz Bandwidth**
- **Revision 0: 21 Jan. 2013**

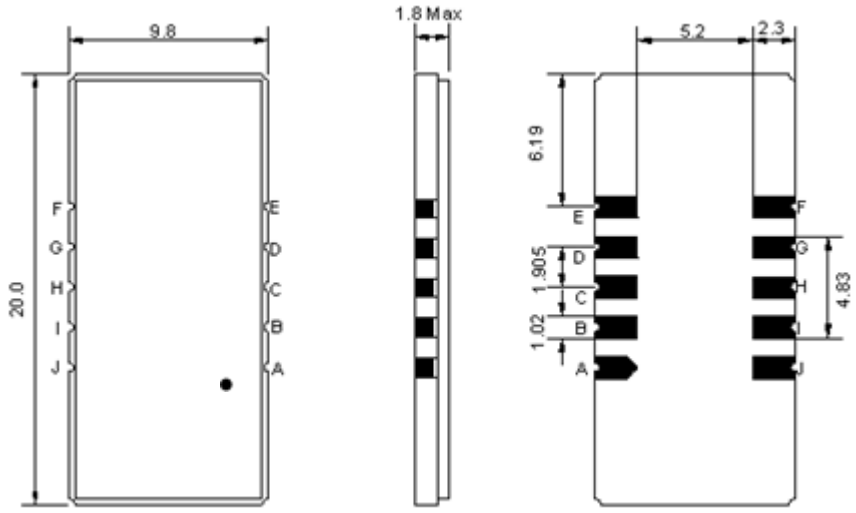
Electrical Characteristics

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	SC0			
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	-	145.0	-
Insertion Loss at Fo	dB	-	23.0	25.0
Group Delay Variation at Fo ± 4.50 MHz	nsec	-	60	120
Absolute Delay at Fo	usec	-	2.98	-
Passband Ripple Variation at Fo ± 4.50 MHz	dB	-	0.6	1.2
Bandwidth at -1dB	MHz	9.20	9.35	-
Bandwidth at -3dB	MHz	-	9.66	-
Bandwidth at -45dB	MHz	-	10.90	11.00
Ultimate Rejection	dB	45	50	-
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.

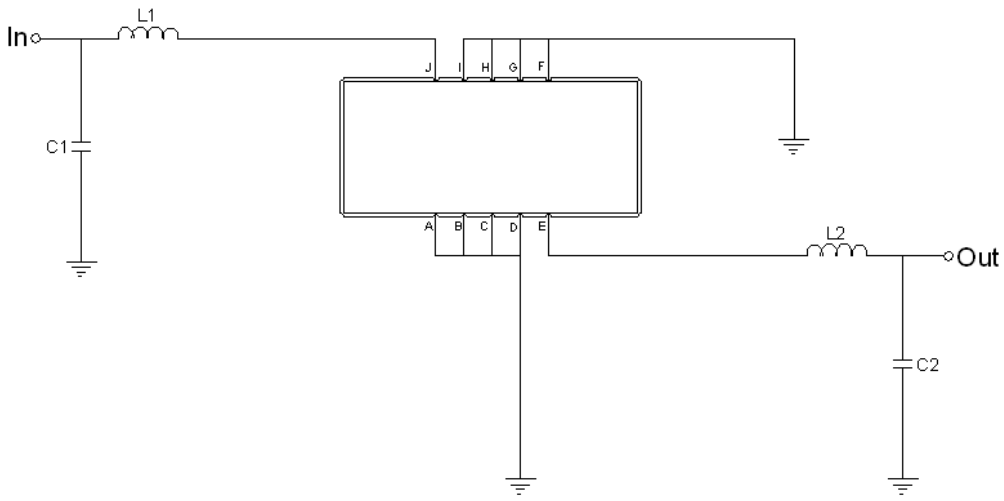
Package Dimensions



① TRANSKO: Brand
② TF-014502: 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



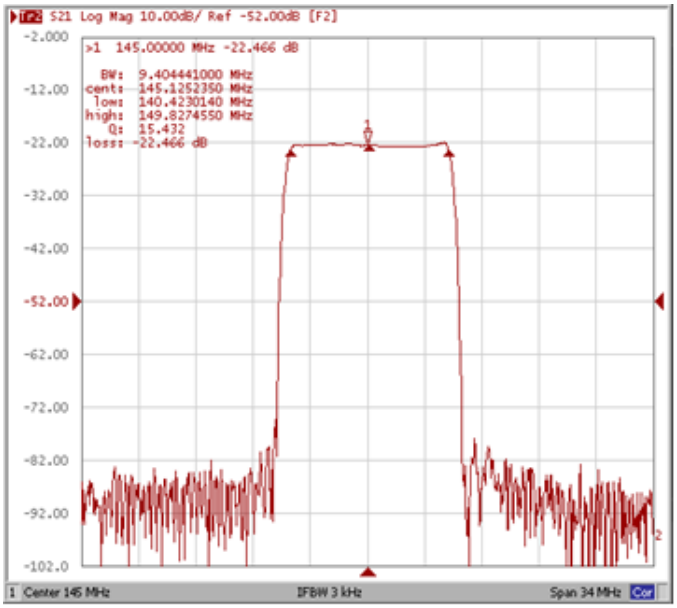
Test Fixture & Values	
Input	L1 = 39nH, C1=47pF
Output	L2 = 39nH, C2=39pF
Source/Load Impedance	50 Ω

Frequency Characteristics

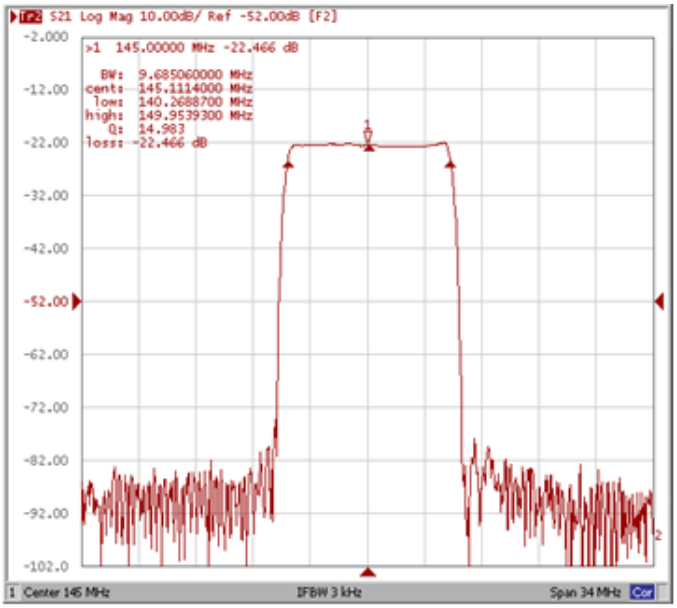
Frequency Response

Operating Temperature: +25°C

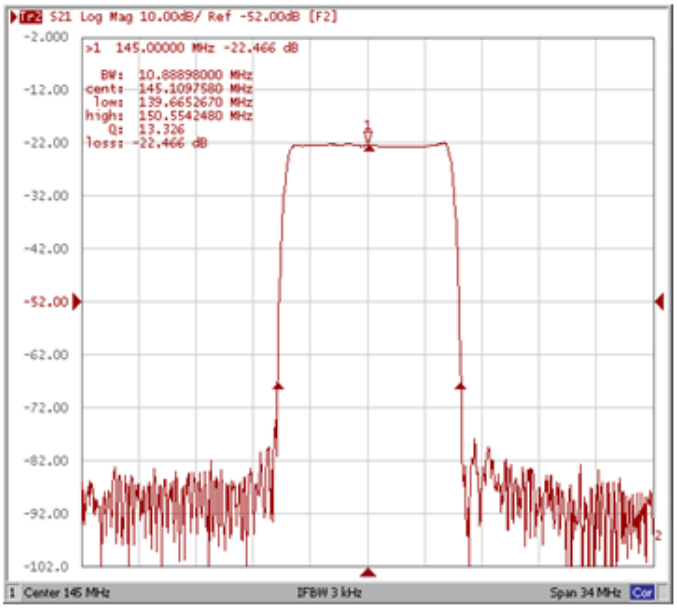
Bandwidth at –1.0 dB



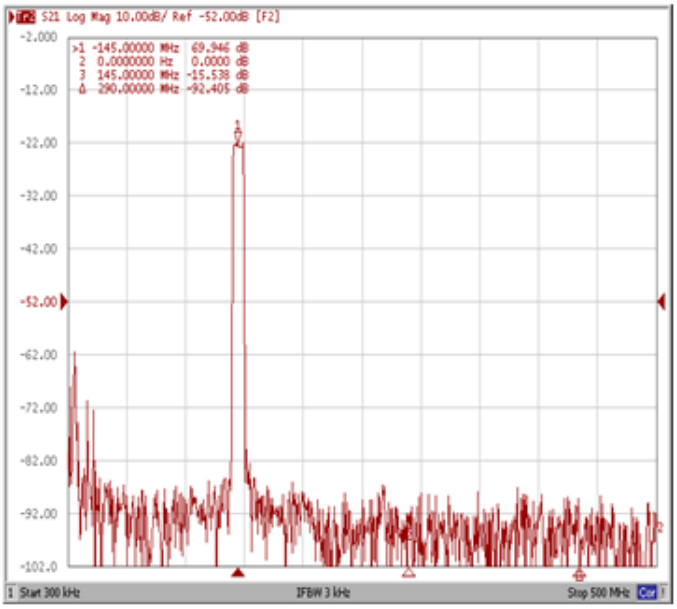
Bandwidth at –3.0 dB



Bandwidth at –45.0 dB

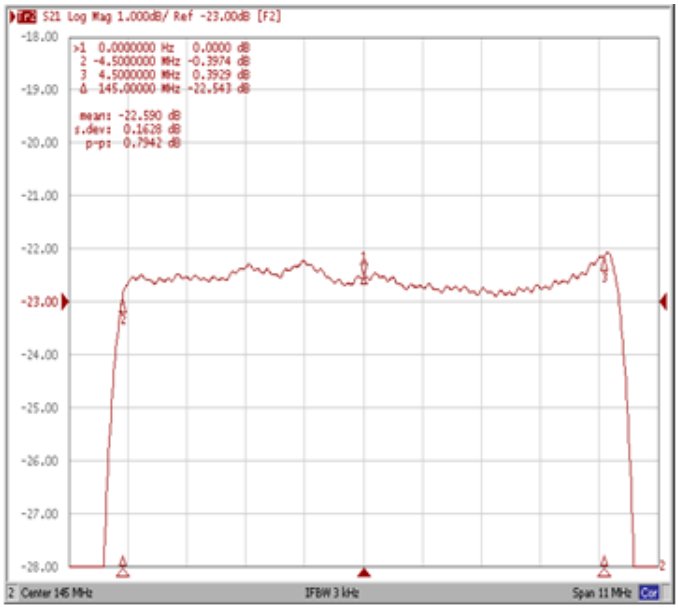


Wide-Band

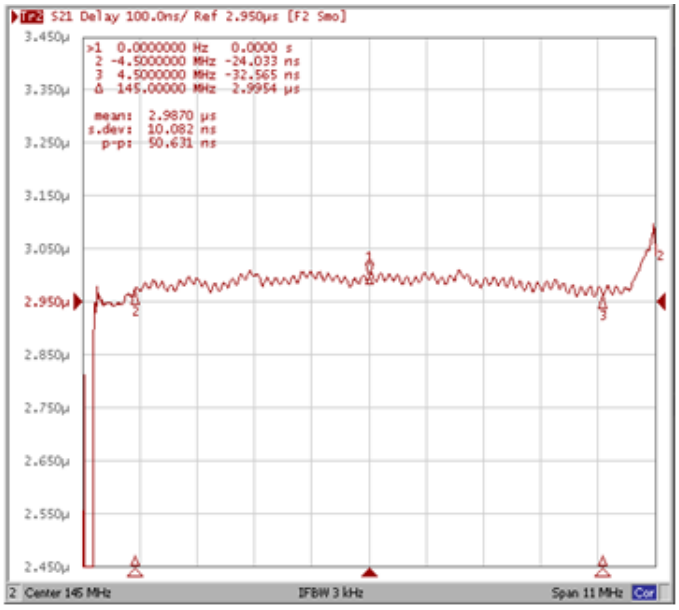


Frequency Response

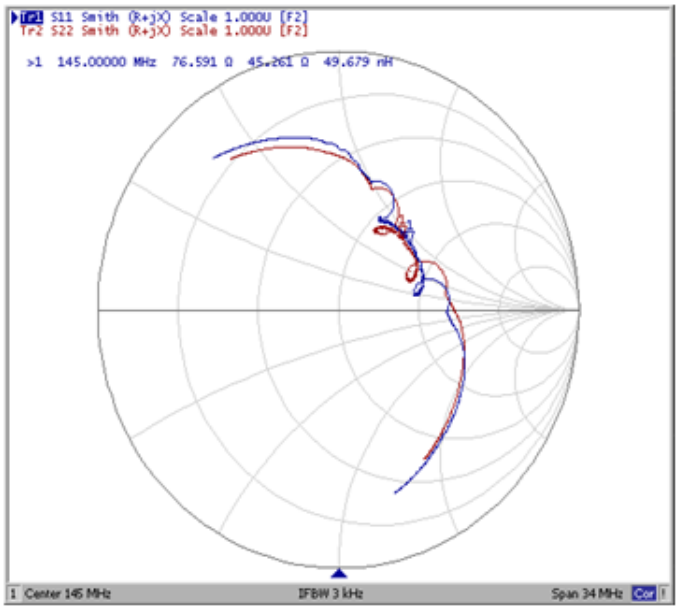
Ripple Variation Fo±4.50MHz



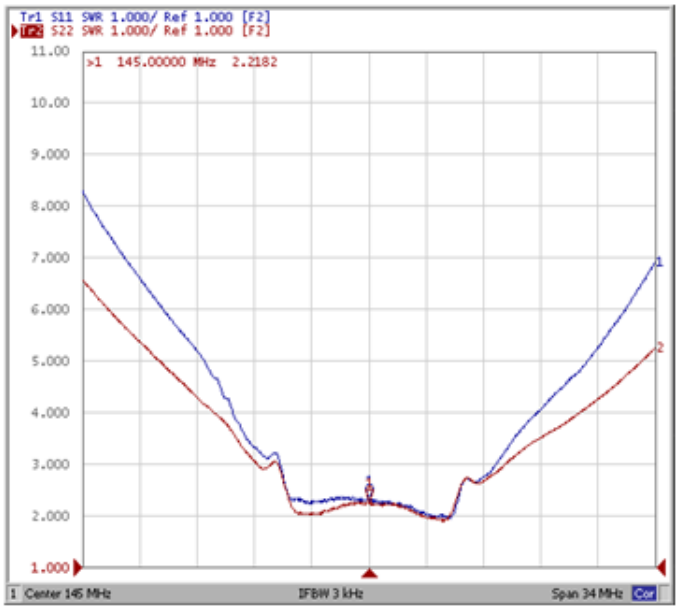
Group Delay Variation Fo±4.50MHz



Smith Chart



VSWR



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