- **201.00 MHz IF SAW Filter / 12.95 MHz Bandwidth**
- **Revision 0: 26 Nov. 2008**

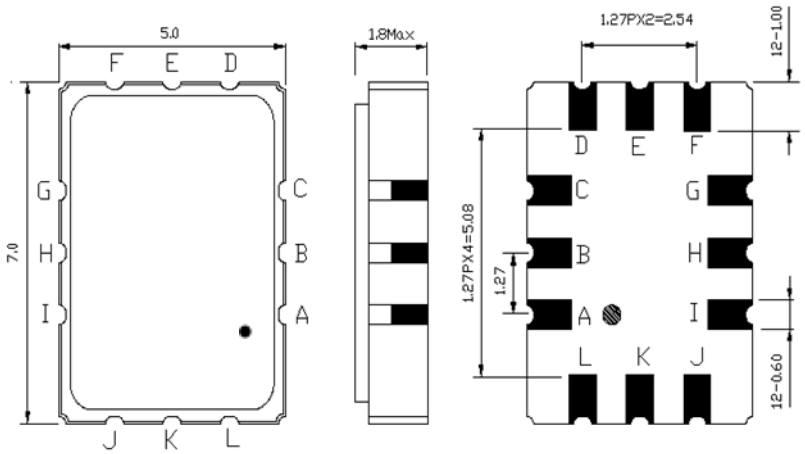
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operating Temperature Range	°C	-40	-	80
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	S1			
Length x Width	mm^2	-	7.0 x 5.0	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	-	201.0	-
Insertion Loss at Fo	dB	-	15.7	18.0
Amplitude Ripple Variation at Fo ± 4.5 MHz	dB_{p-p}	-	0.7	1.2
Group Delay Variation at Fo ± 4.5 MHz	nsec	-	20	35
Absolute Delay at Fo	µsec	-	0.57	-
Temperature Coefficient	ppm/°C	-	-86	-
Bandwidth at –1.0 dB	MHz	11.00	12.95	-
Bandwidth at –3.0 dB	MHz	-	14.15	-
Bandwidth at –40.0 dB	MHz	-	19.75	22.0
Ultimate Rejection	-	-	40	-

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.

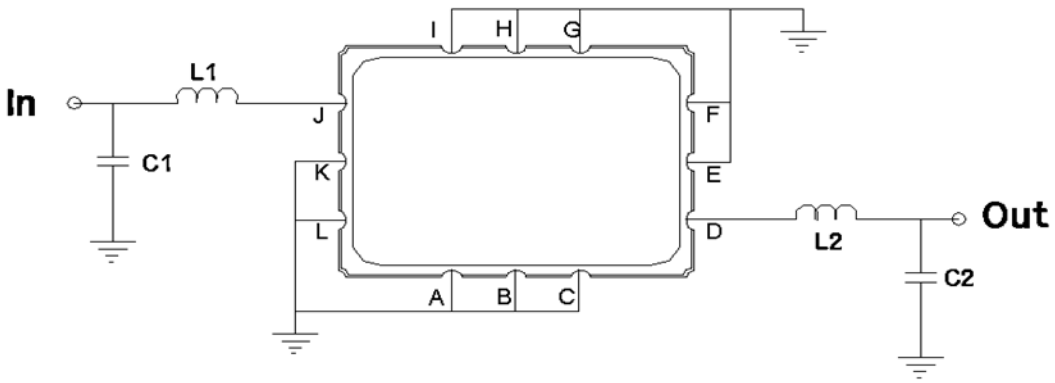
Package Dimensions



① **TRANSKO: Brand**
② **TL20112A: Model Name**
③ **X : Date Code (Year)**
④ **Y : Date Code (Month)**
⑤ **Z : Date Code (Date)**
• **: Index Dot**

Pin Description	
A, B, C, E, F, G, H, I, K, L	Ground
J	Input
D	Output

Testing Environment

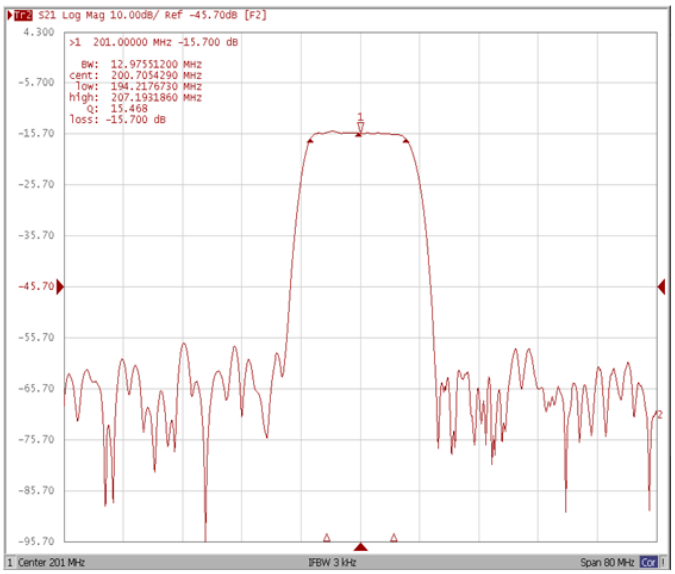


Test Fixture & Values	
Input	L1=27 nH , C1=11 pF
Output	L2=33 nH , C2=11 pF
Source/Load Impedance	50 Ω

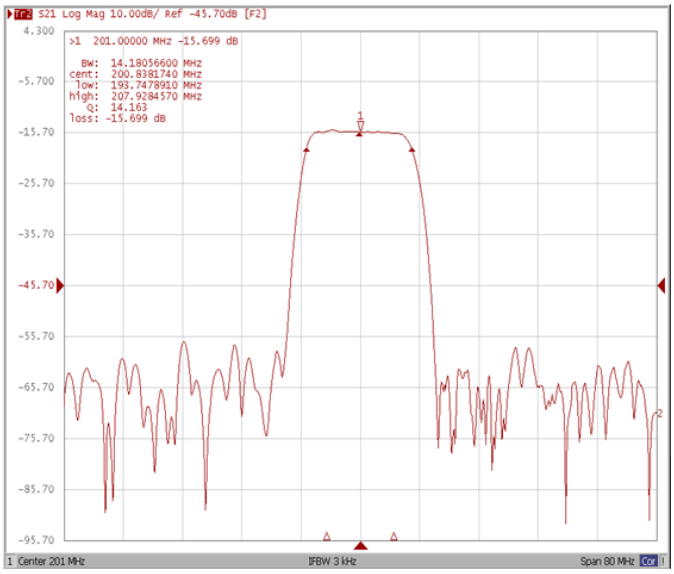
Frequency Characteristics

Frequency Response

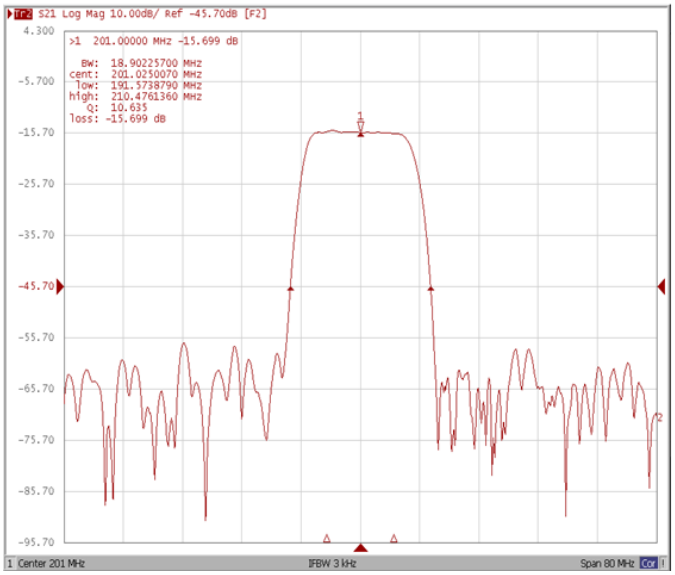
Bandwidth at –1.0 dB



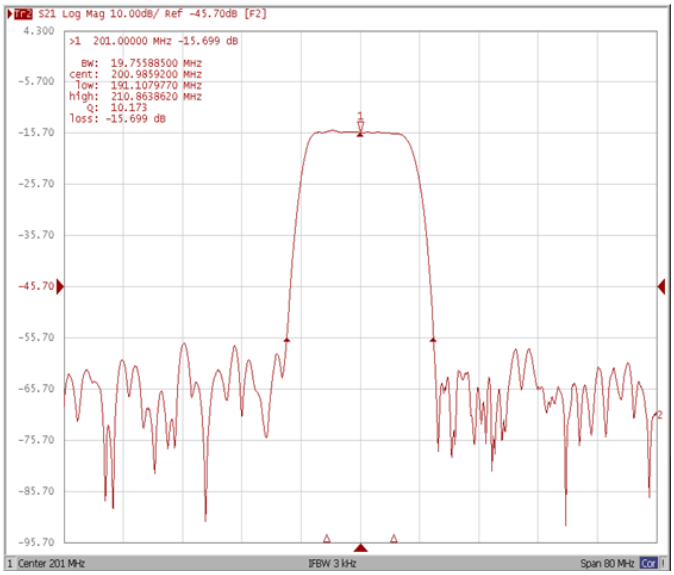
Bandwidth at –3.0 dB



Bandwidth at –30.0 dB

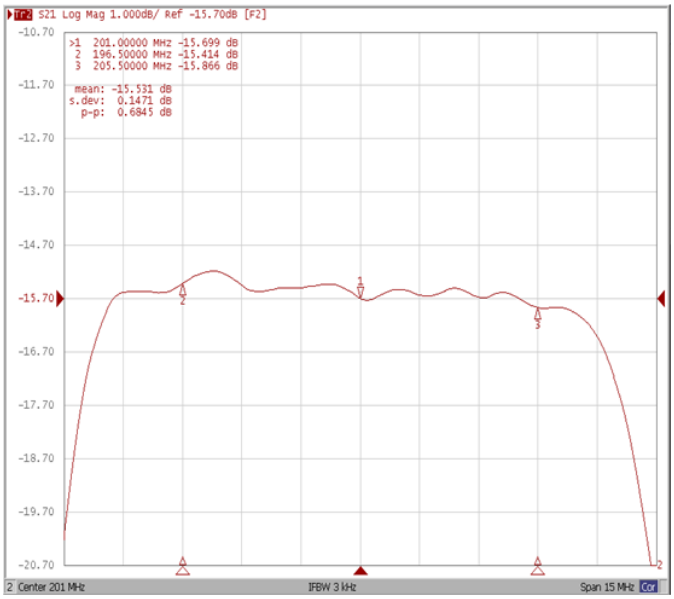


Bandwidth at –40.0 dB

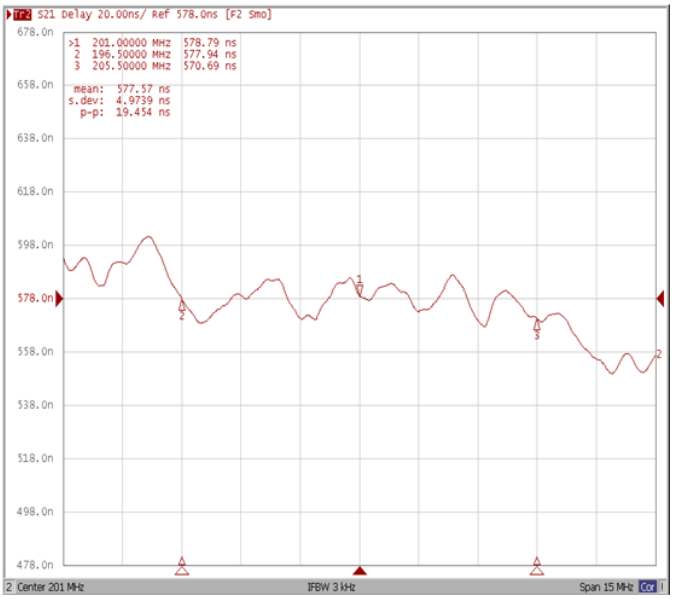


Frequency Response

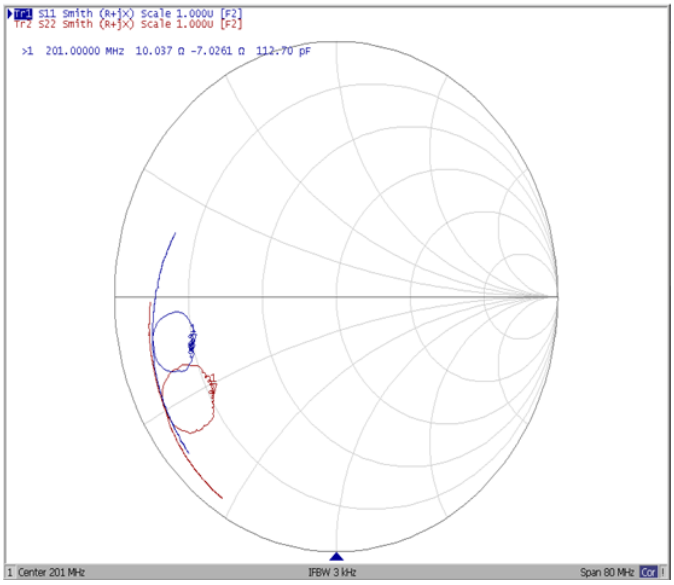
Ripple Variation Fo±4.5MHz



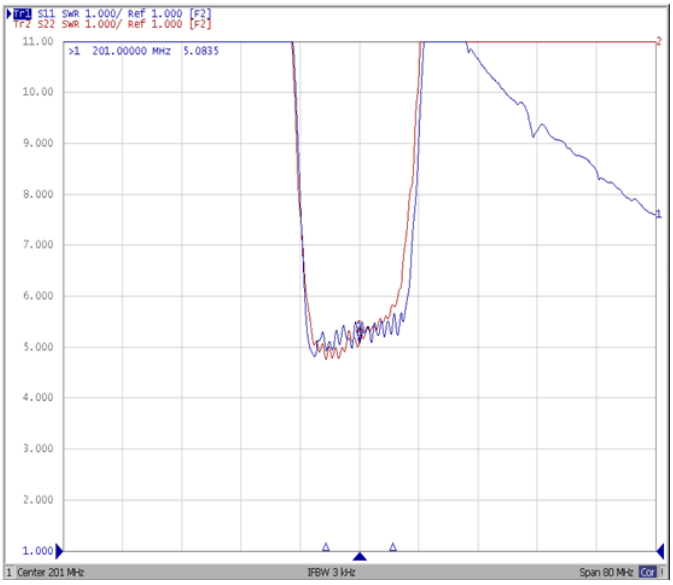
Group Delay Variation Fo±4.5MHz



Smith Chart



VSWR



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