- **75.00 MHz IF SAW Filter / 15.5 MHz Bandwidth**
- **Revision 1: 07 Oct. 2008**

Electrical Characteristics

MAXIMUM RATING				
Parameters Description	**Unit**	**Minimum**	**Typical**	**Maximum**
Operating Temperature Range	°C	-30	-	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	T			
Length x Width	mm²	-	9.1 x 4.8	-
Height	mm	-	-	1.5

ELECTRICAL SPECIFICATION				
Parameters Description	**Unit**	**Minimum**	**Typical**	**Maximum**
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	12.5	15.0
Group Delay Variation at Fo±6.875MHz	nsec	-	25	60
Absolute Delay Time at Fo	usec	-	0.9	-
Passband Ripple at Fo±6.875MHz	dB	-	0.33	0.8
Bandwidth at -1dB	MHz	13.75	15.5	-
Bandwidth at -3dB	MHz	-	16.35	-
Bandwidth at -40dB	MHz	-	20.0	21.0
Ultimate Rejection	dB	40	45	-
Temperature Coefficient	ppm/℃	-	-86	-
VSWR	-	-	4	

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.

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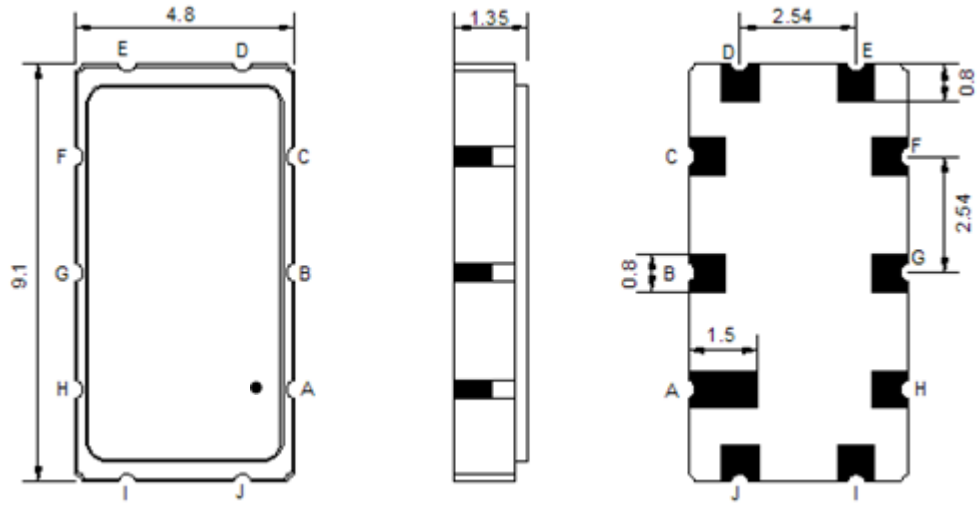
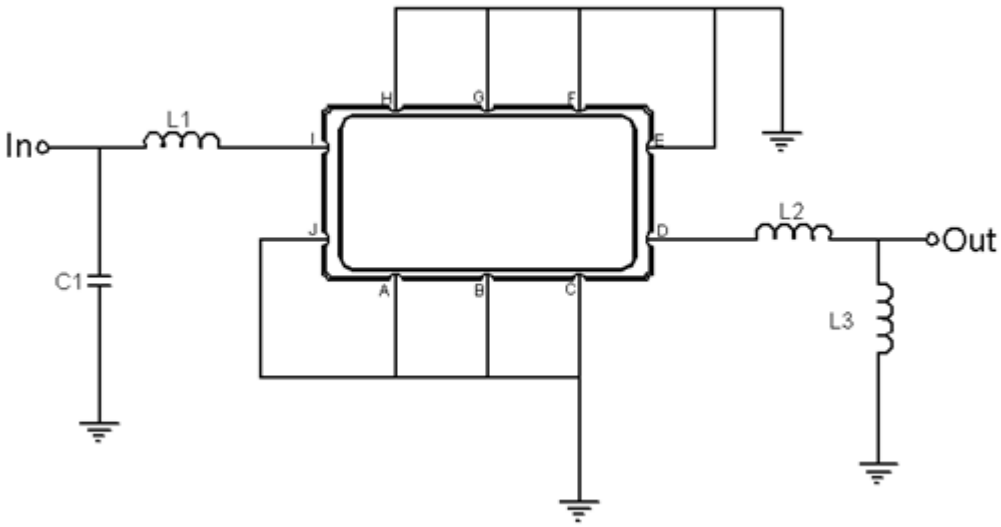
Package Dimensions



① **TRANSKO: Brand**
② **TL07515C: 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, J	Ground
I	Input
D	Output

Testing Environment



Test Fixture & Values	
Input	L1 = 120 nH, C1 = 20 pF
Output	L2 = 18 nH, L3 = 100 nH
Source/Load Impedance	50 Ω

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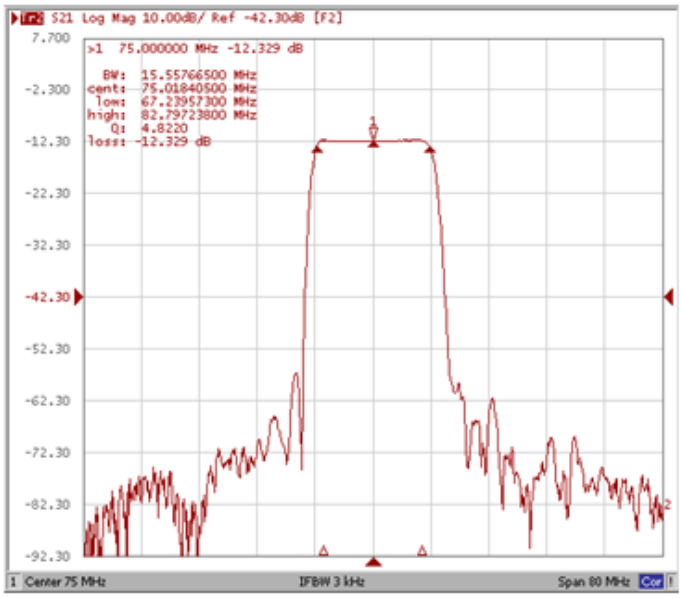
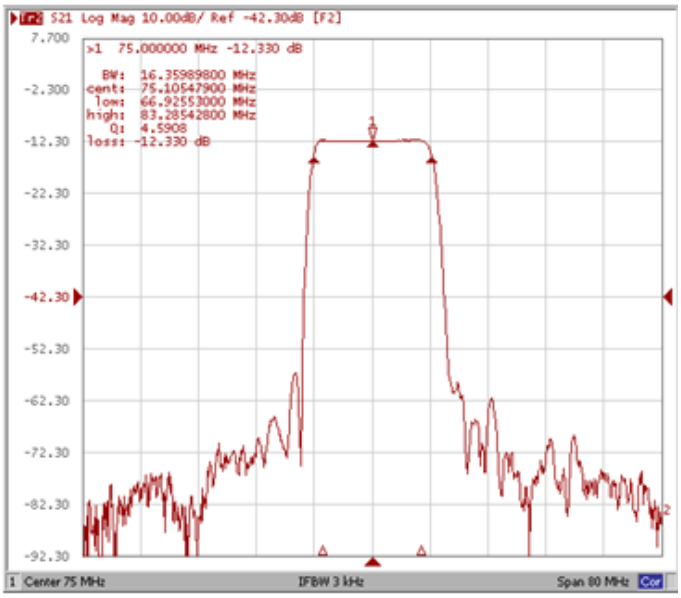
Frequency Characteristics

Frequency Response

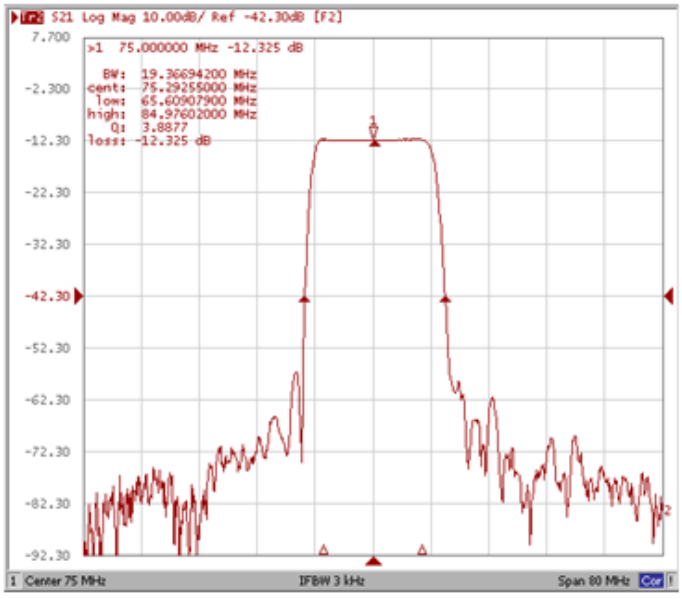
Bandwidth at –1.0 dB



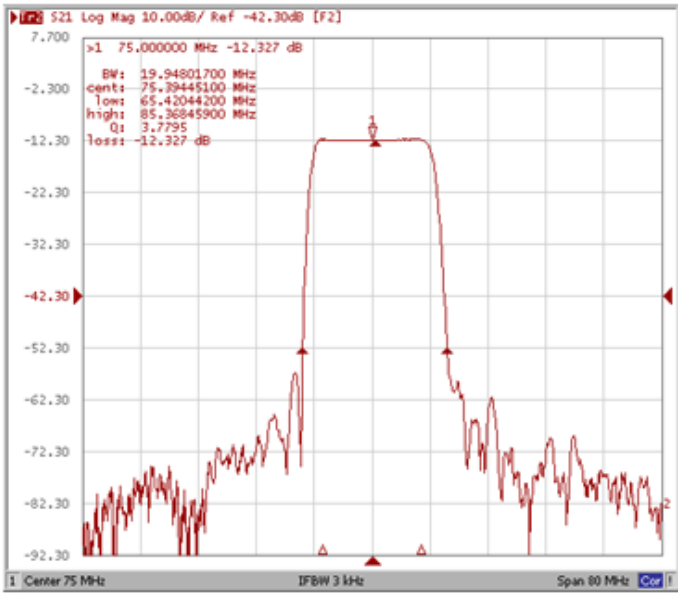
Bandwidth at –3.0 dB



Bandwidth at –30.0 dB

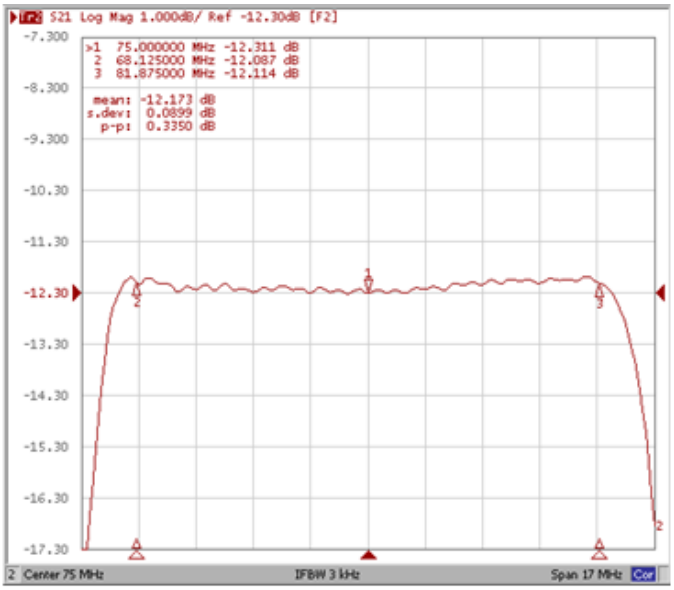


Bandwidth at –40.0 dB

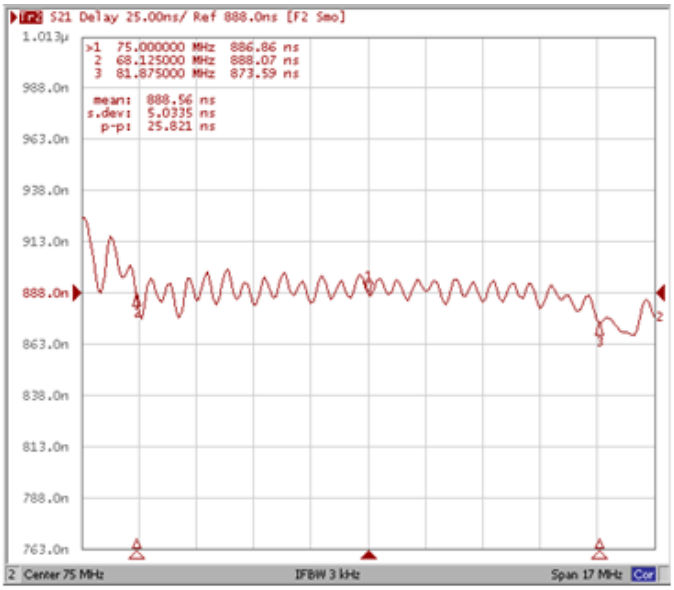


Frequency Response

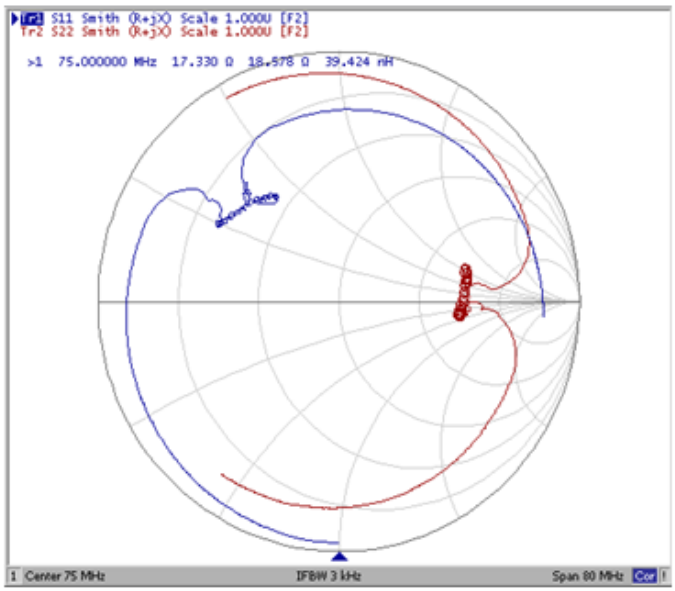
Ripple Variation Fo±6.875MHz



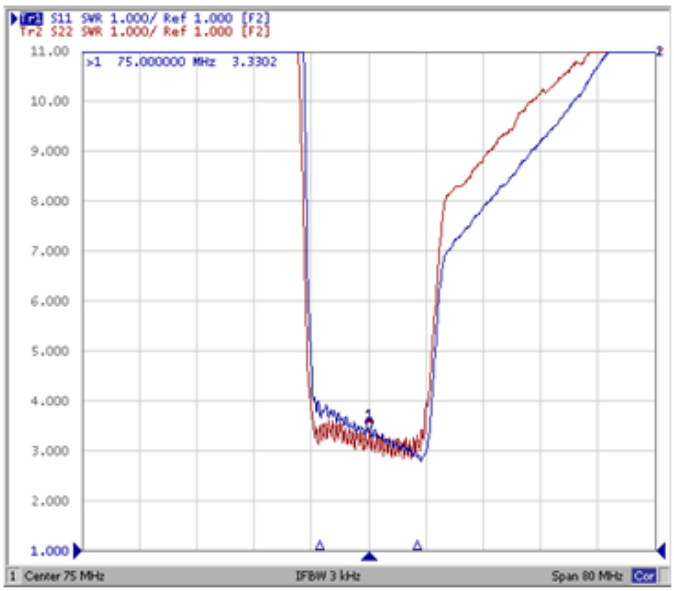
Group Delay Variation Fo±6.875MHz



Smith Chart



VSWR



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