Transko

TL12510AV

RoHS Compliant

- **125.0 MHz IF SAW Filter / 10.85 MHz Bandwidth**
- **Revision 1: 01 Sep. 2008**

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operating Temperature Range	°C	-20	-	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	V			
Length x Width	mm^2	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	-	125.0	-
Insertion Loss at Fo	dB	-	17.5	20.0
Group Delay Variation at Fo ± 4.7 MHz	nsec	-	20	70
Absolute Delay at Fo	usec	-	1.34	-
Passband Ripple Variation at Fo ± 4.7 MHz	dB	-	0.30	0.70
Bandwidth at -1dB	MHz	10.00	10.85	-
Bandwidth at -3dB	MHz	-	11.45	-
Bandwidth at -40dB	MHz	-	13.80	14.50
Relative Attenuation:				
@Fo± 55 MHz	dB	50	60	
Lower Sidelobe	dB	40	50	-
Upper Sidelobe	dB	40	50	-
Temperature Coefficient	ppm/℃		-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.

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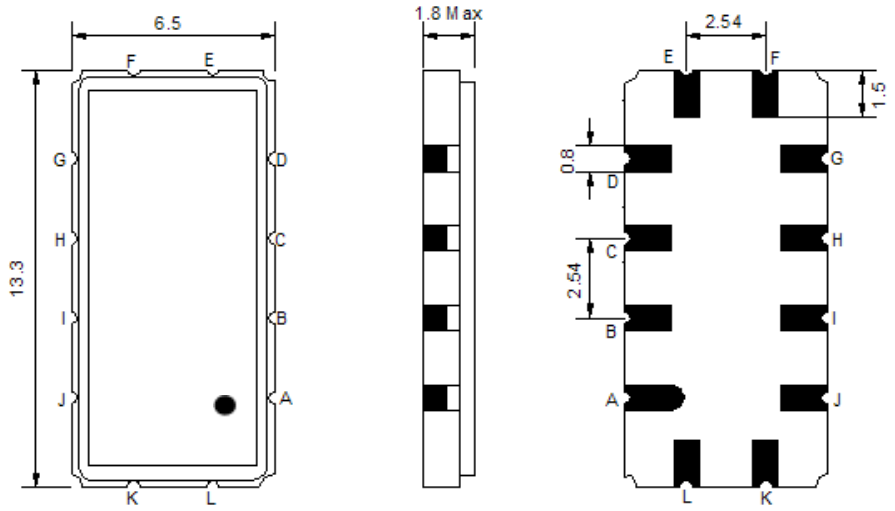
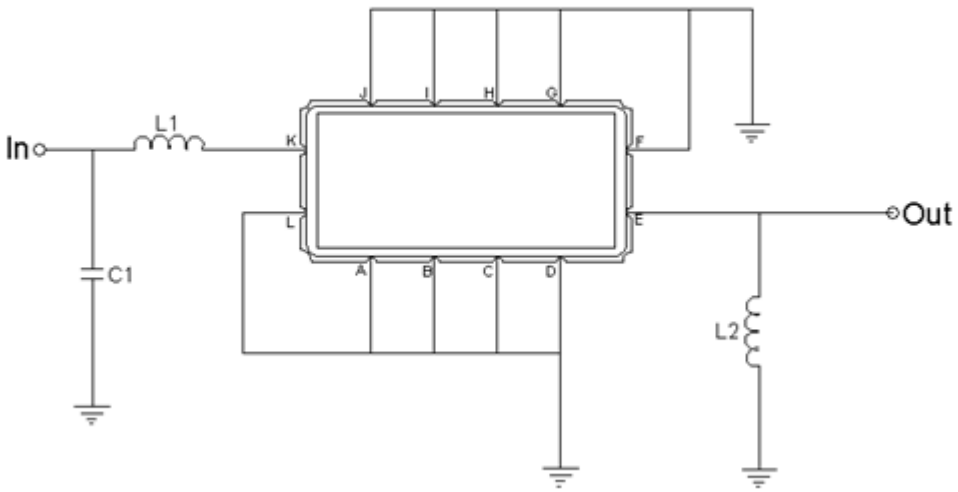
Package Dimensions



① TRANSKO: Brand
② TL12510A: 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, J, L	Ground
K	Input
E	Output

Testing Environment



Test Fixture & Values	
Input	L1 = 56 nH, C1 = 51pF
Output	L2 = 33 nH
Source/Load Impedance	50 Ω

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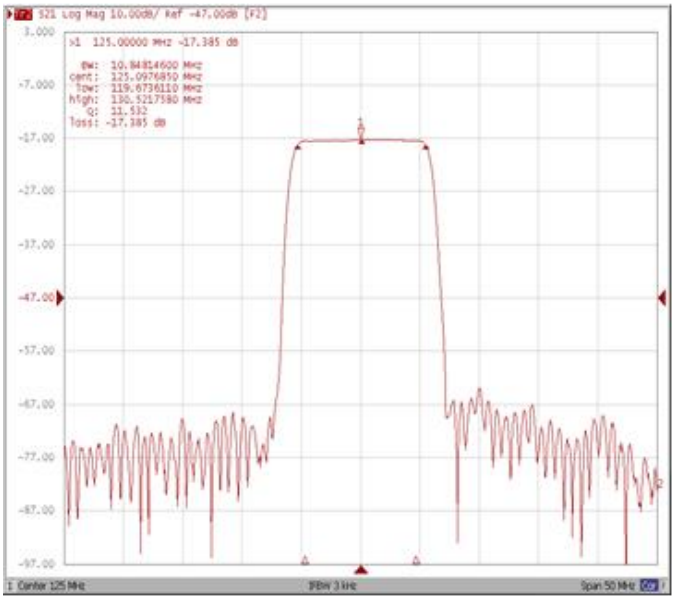
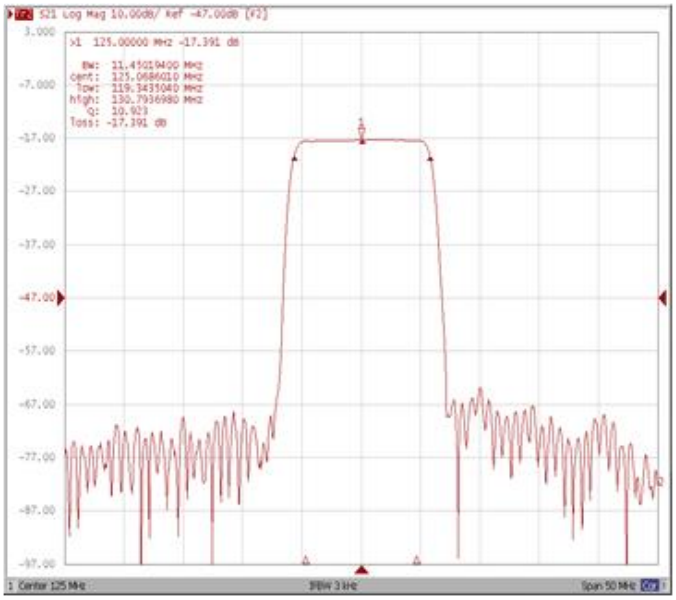
Frequency Characteristics

Frequency Response

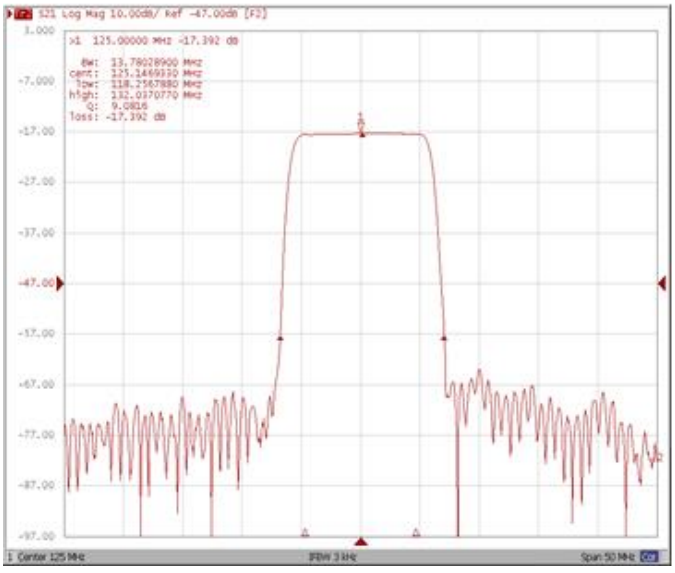
Bandwidth at –1.0 dB



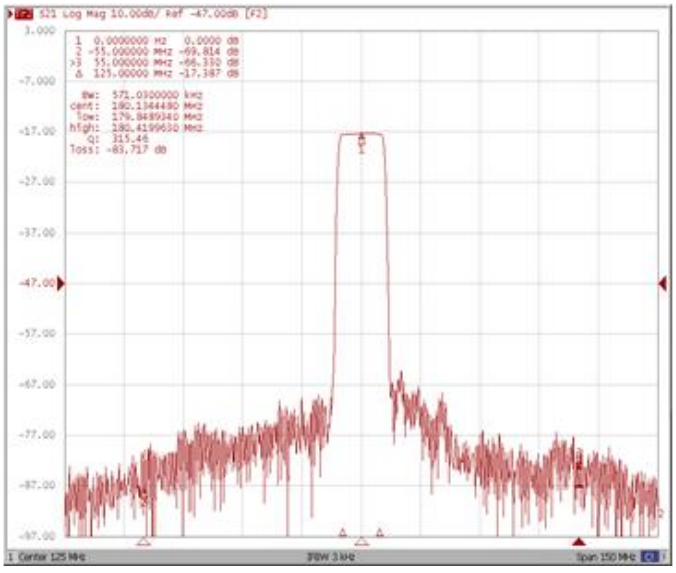
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB



Relative Attenuation Fo±55MHz



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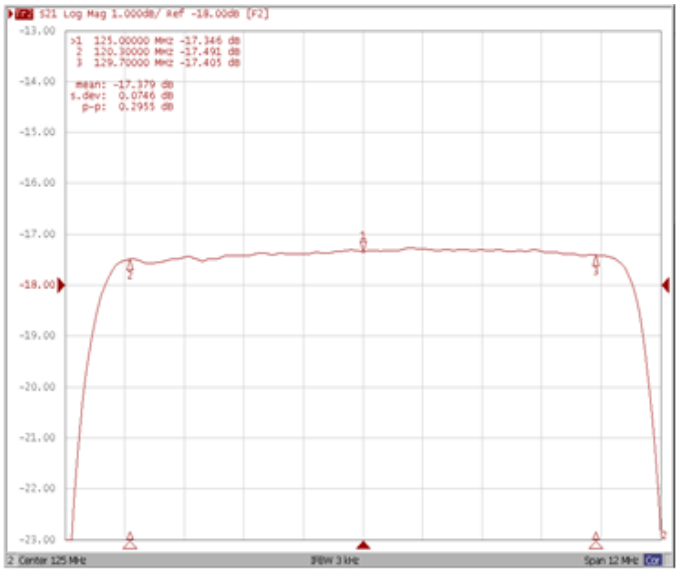
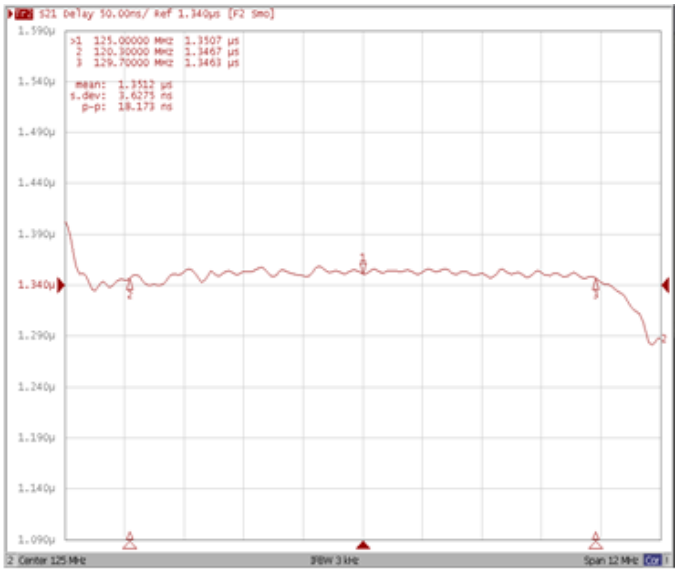
Frequency Response

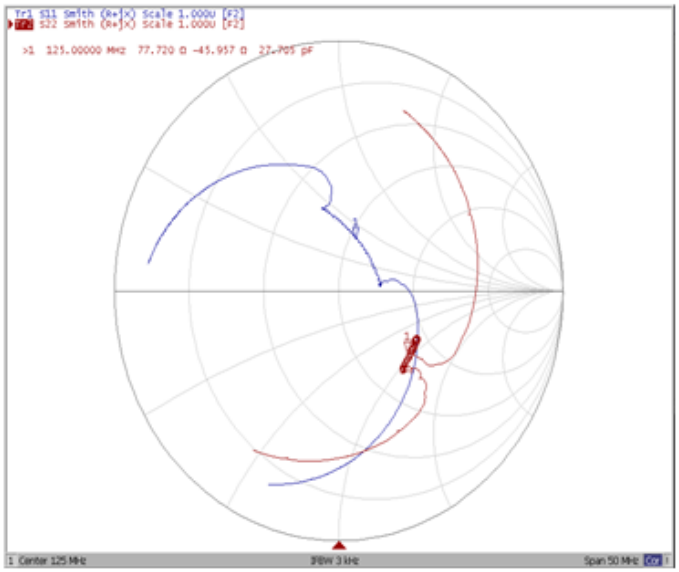
Ripple Variation Fo±4.7MHz



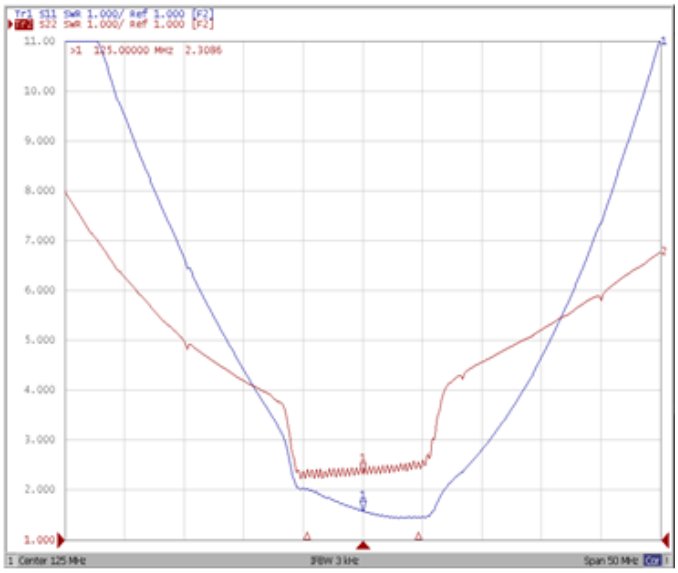
Group Delay Variation Fo±4.7MHz



Smith Chart



VSWR



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