- **187.50 MHz IF SAW Filter / 65.52 MHz Bandwidth**
- **Revision 0: 22. Aug. 2011**

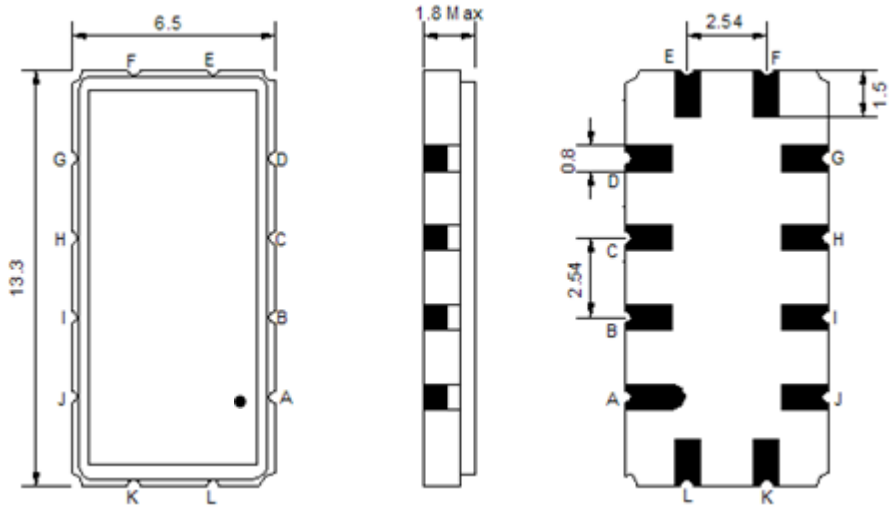
Electrical Characteristics

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	V			
Length x Width	mm²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	-	187.5	-
Insertion Loss at Fo	dB	-	28.50	31.00
Amplitude Ripple Variation (Fo±32.4MHz)	dB_{p-p}	-	0.58	1.0
Group Delay Variation (Fo±32.4MHz)	nsec	-	13	35
Absolute Delay at Fo	µsec	-	0.90	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at –1.0 dB	MHz	65.40	65.52	-
Bandwidth at –3.0 dB	MHz	-	66.68	-
Bandwidth at –40.0 dB	MHz	-	71.0	72.0
Ultimate Rejection:				
10MHz ~ 147.5MHz	dB	48	50	-
227.5MHz ~ 540MHz	dB	48	50	-
540MHz~ 600MHz	dB	43	45	-

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.

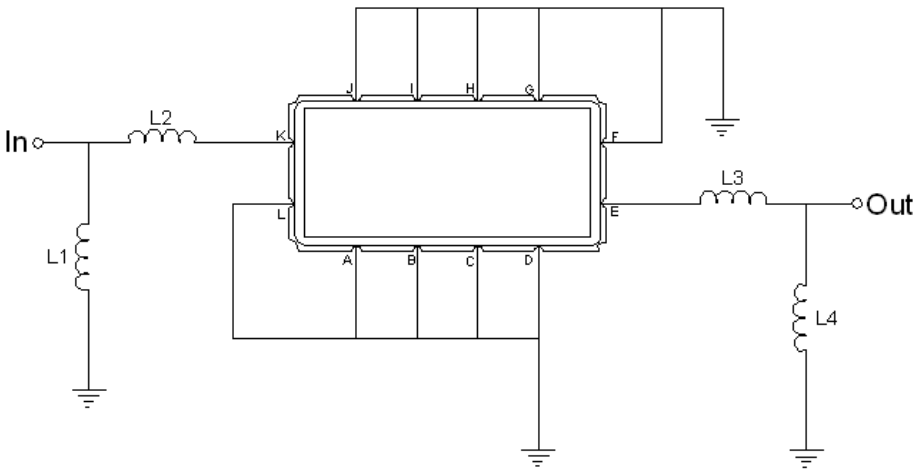
Package Dimensions



① TRANSKO: Brand
② TA18765A: 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=56nH, L2=5.6nH
Output	L3=5.6nH, L4=56nH
Source/Load Impedance	50 Ω

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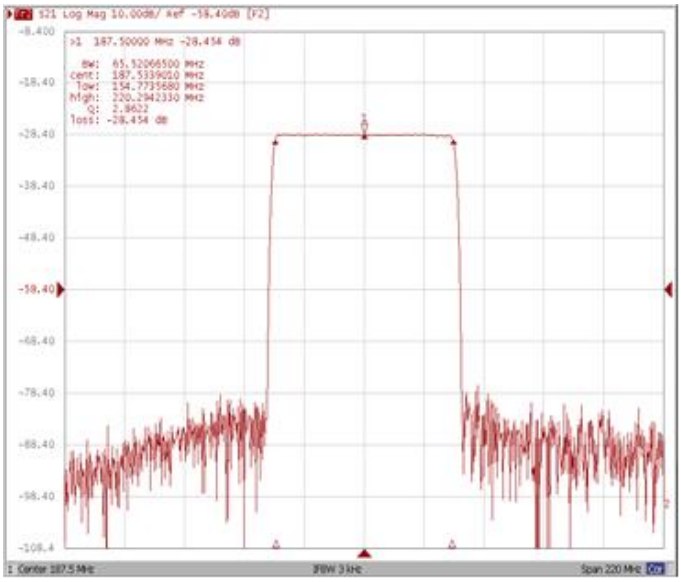
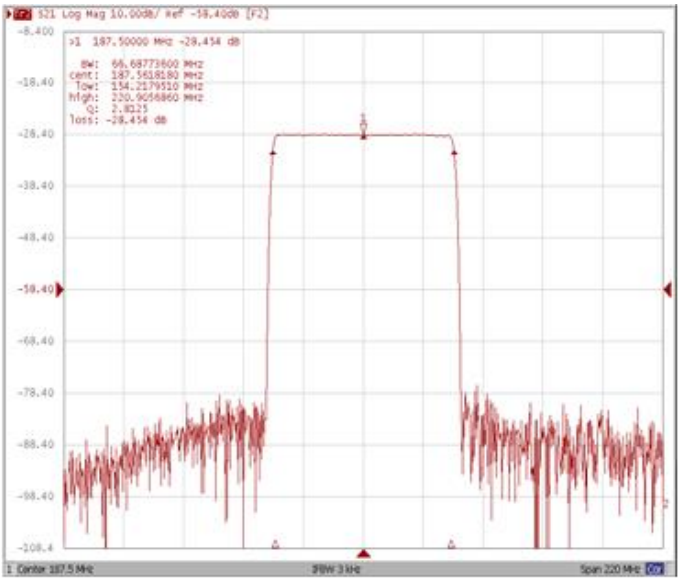
Frequency Characteristics

Frequency Response

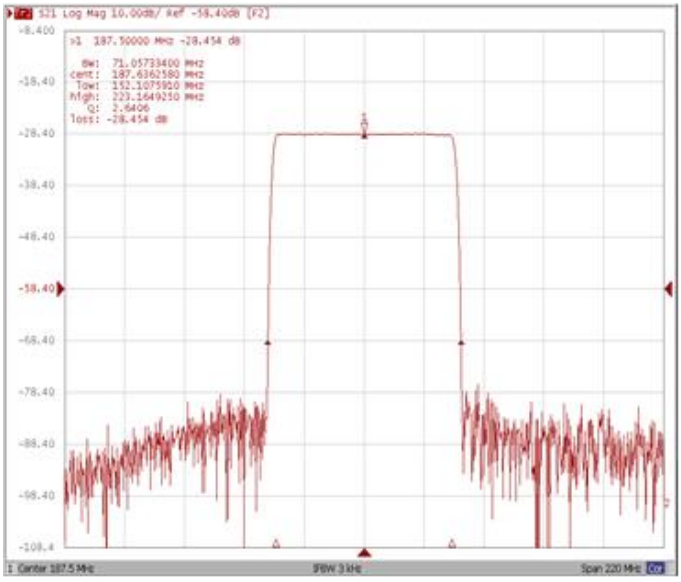
Bandwidth at –1.0 dB



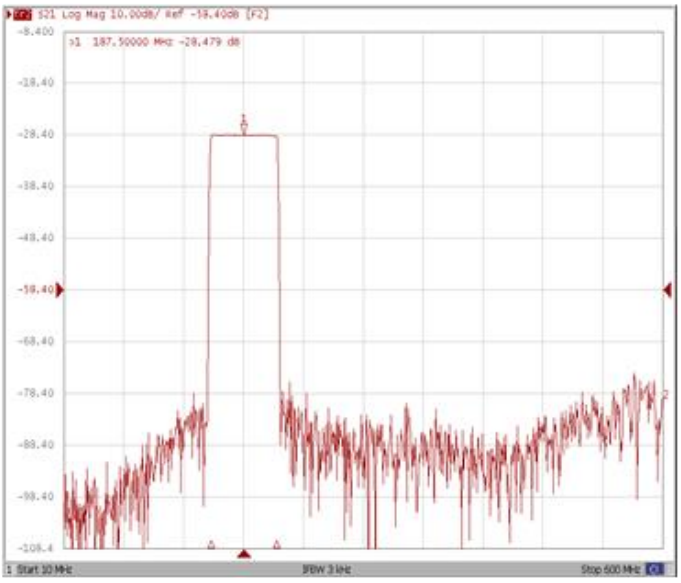
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB

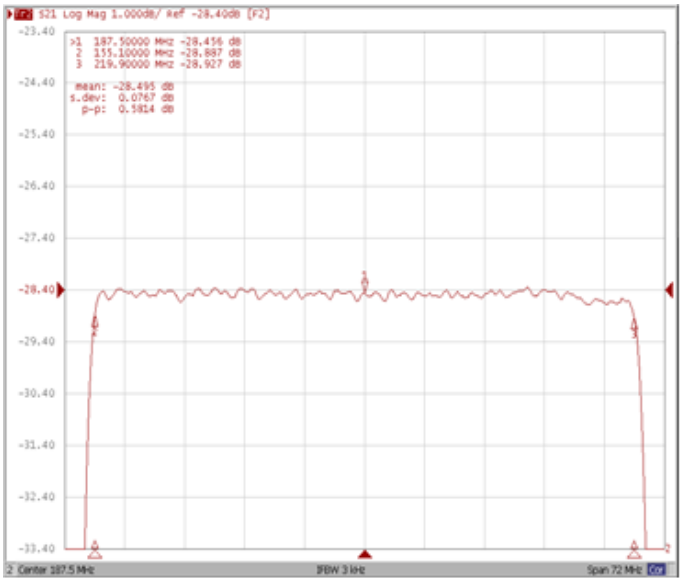


Wide-Band

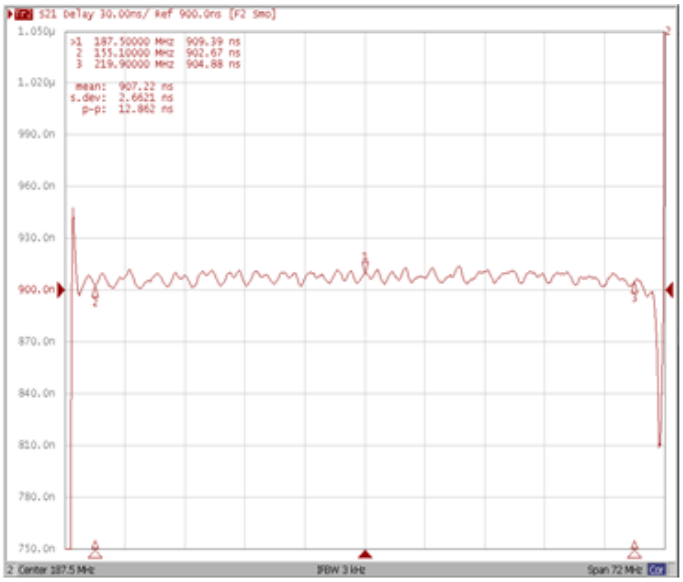


Frequency Response

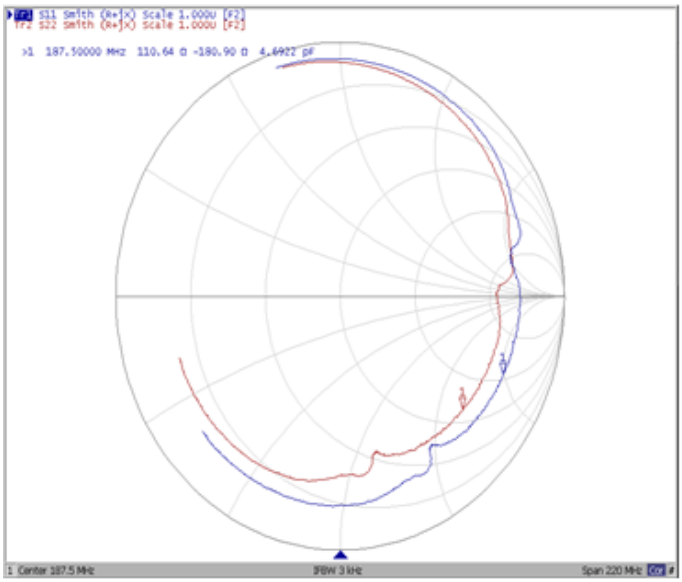
Ripple Variation Fo±32.4MHz



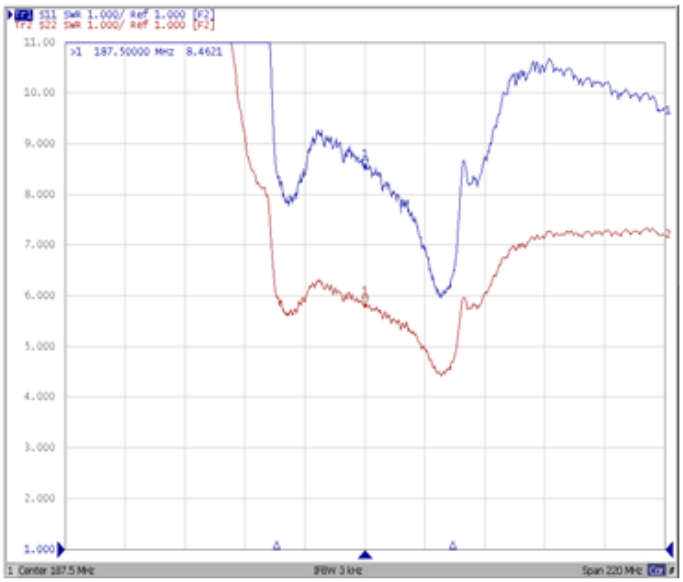
Group Delay Variation Fo±32.4MHz



Smith Chart



SWR



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