- **380.00 MHz IF SAW Filter / 4.57 MHz Bandwidth**
- **Revision 0: 10. Jun. 2008**

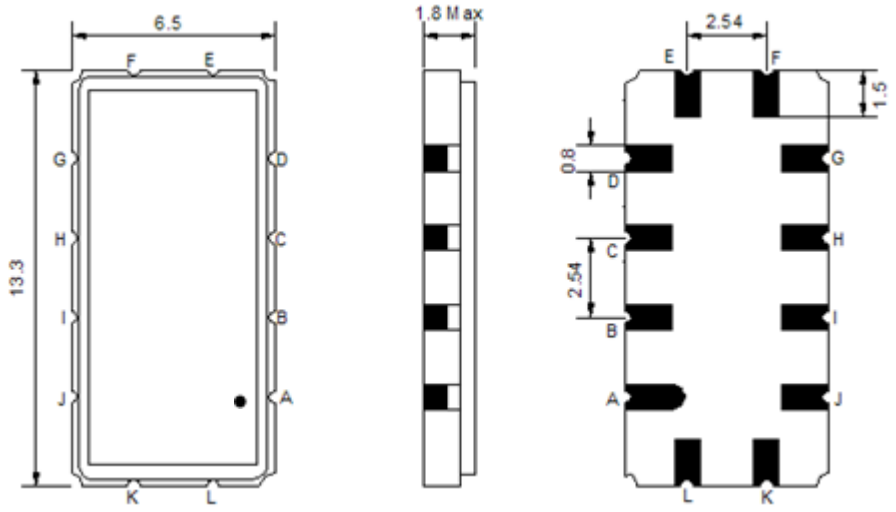
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operation 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	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	379.80	380.0	380.20
Insertion Loss at Fo	dB	-	20.5	23.0
Amplitude Ripple Variation	dB_{p-p}	-	0.55	1.0
Group Delay Variation	nsec	-	85	150
Phase Linearity Variation	deg	-	5.2	10.0
Absolute Delay at Fo	µsec	-	1.45	-
Temperature Coefficient	ppm/°C	-	-0.03	-
Bandwidth at –1.0 dB	MHz	4.0	4.10	-
Bandwidth at –3.0 dB	MHz	4.3	4.57	-
Bandwidth at –40.0 dB	MHz	-	6.20	6.50
Relative Attenuation:				
Lower Sidelobe	dB	45	50	-
Upper Sidelobe	dB	45	50	-

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.

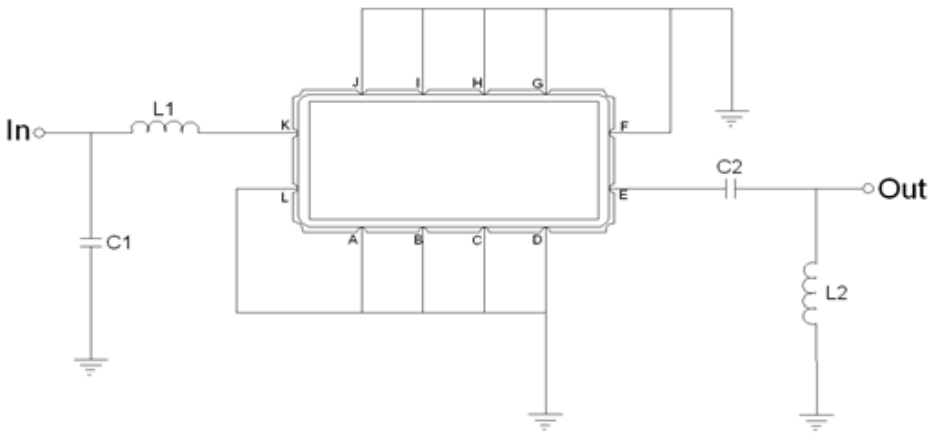
Package Dimensions



① TRANSKO: Brand
② TA38004A: 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

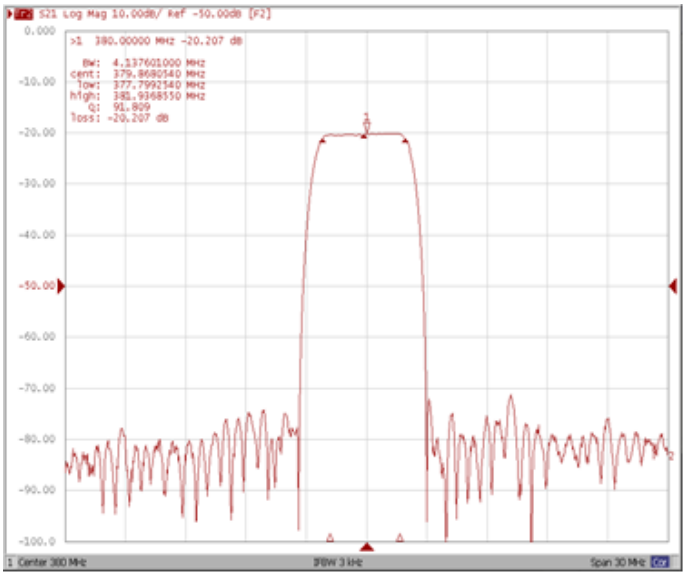


Test Fixture & Values	
Input	L1=5.6nH , C1=22pF
Output	L2=22nH , C2=5.6pF
Source/Load Impedance	50 Ω

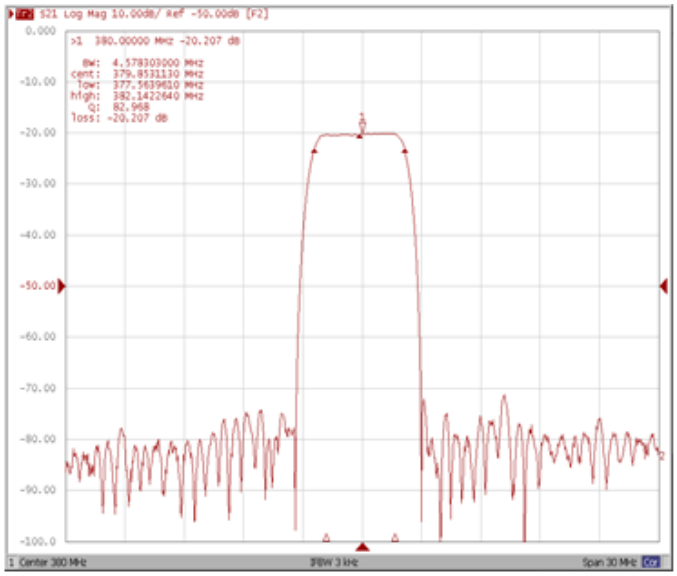
Frequency Characteristics

Frequency Response

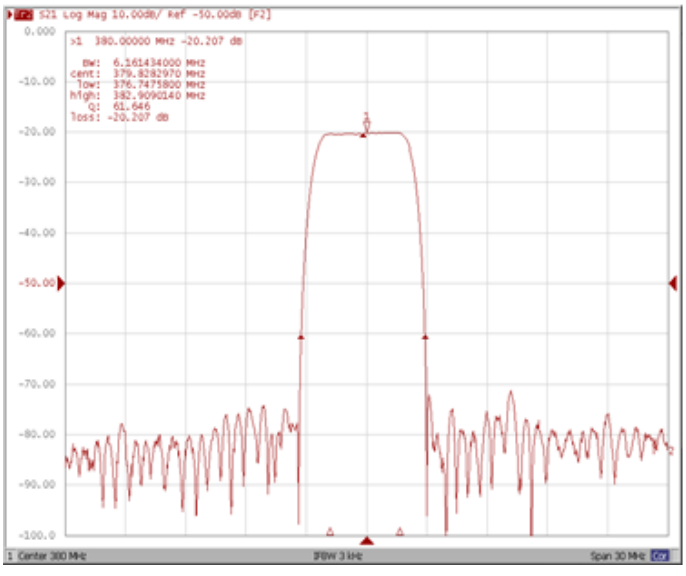
Bandwidth at –1.0 dB



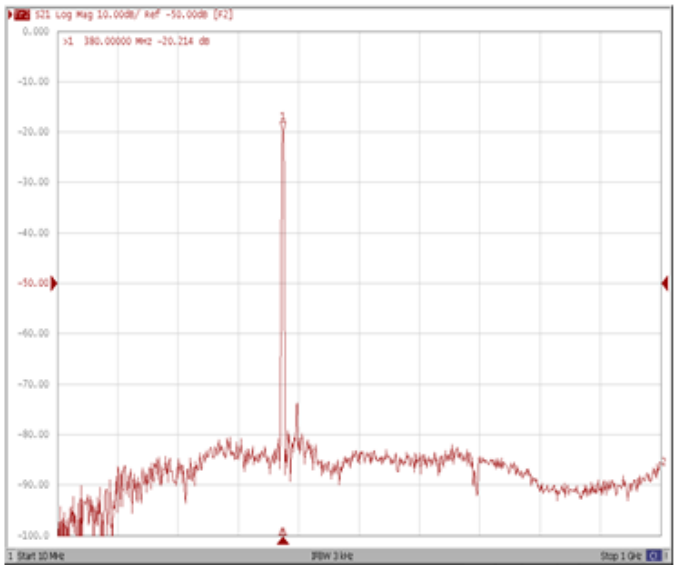
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB

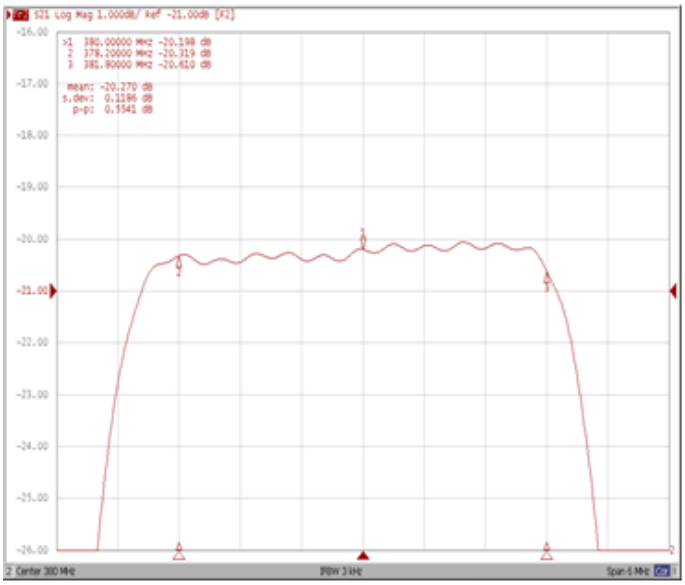


Wide-Band

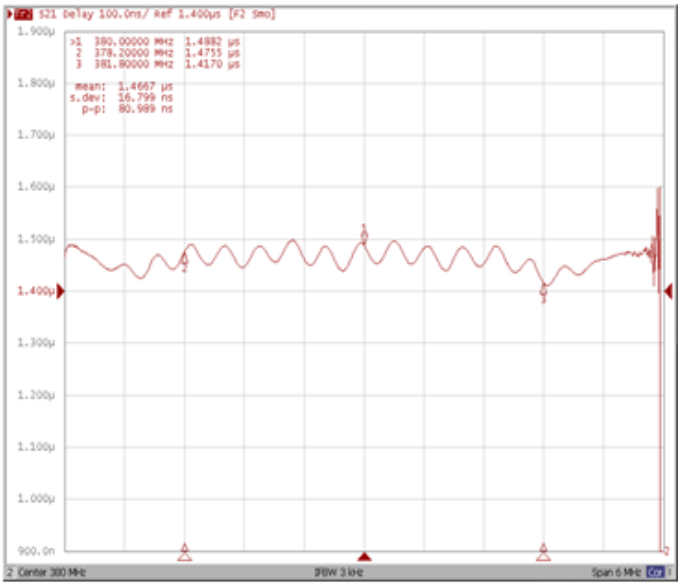


Frequency Response

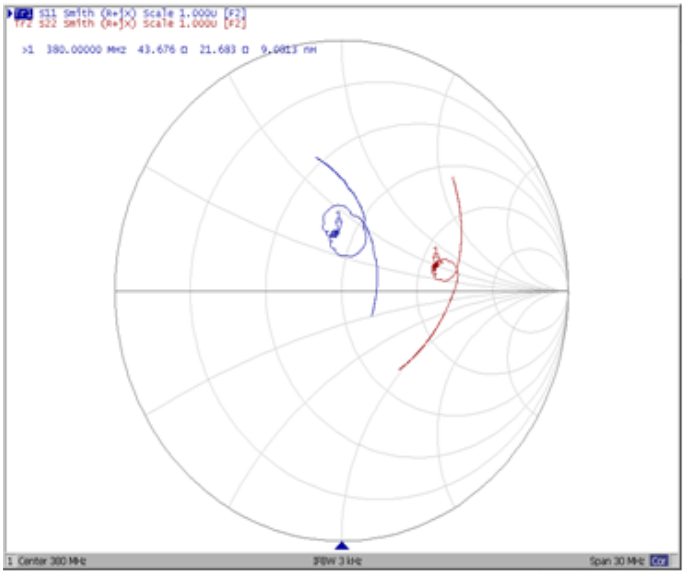
Ripple Variation Fo±1.8MHz



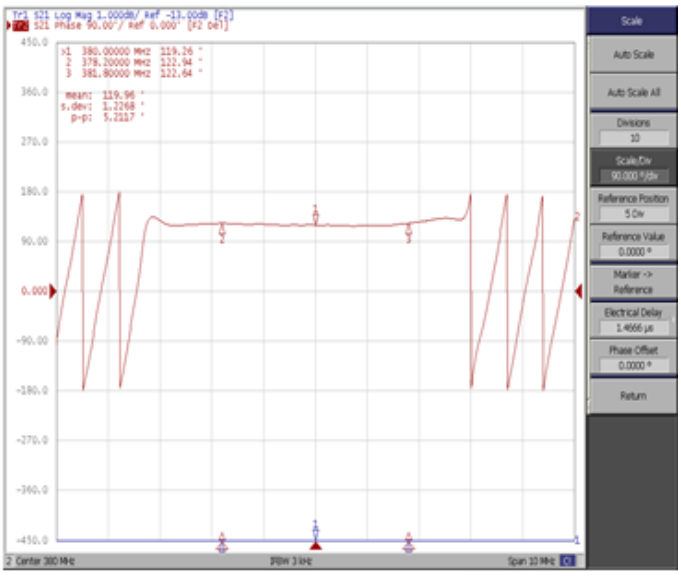
Group Delay Variation Fo±1.8MHz



Smith Chart



Phase Linearity Variation Fo±1.8MHz



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