

- 108.8 MHz IF SAW Filter / 3.93 MHz Bandwidth
- Revision 0: 05. Mar. 2010

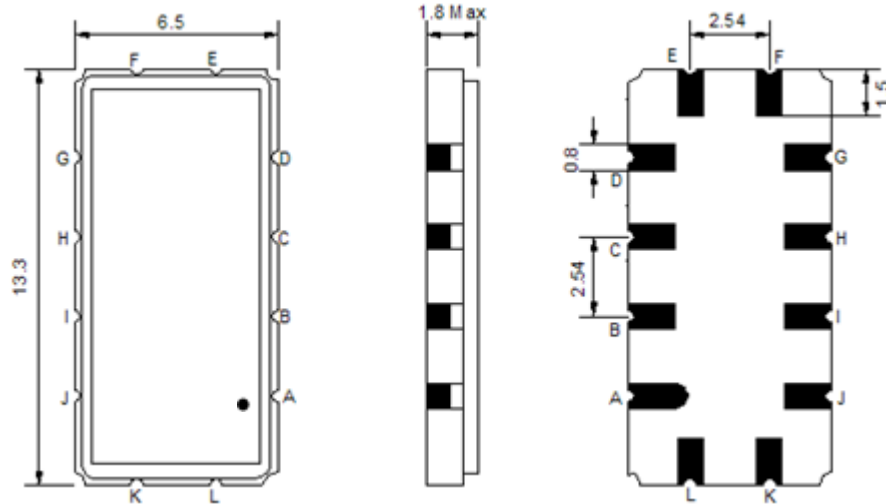
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-5	-	65
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	108.70	108.80	108.90
Insertion Loss at Fo	dB	-	21.10	23.00
Group Delay Variation (Fo±1.50MHz)	ns	-	80	130
Absolute Delay Time at Fo	us	-	1.41	1.60
Temperature Coefficient	ppm/°C	-	-18	-
Amplitude Ripple (Fo±1.50MHz)	dB	-	0.35	0.90
Bandwidth at -1dB	MHz	3.60	3.93	-
Bandwidth at -3dB	MHz	4.00	4.33	-
Bandwidth at -25dB	MHz	-	5.55	5.70
Bandwidth at -40dB	MHz	-	5.88	6.10
Ultimate Rejection	dB	45	52	-

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.

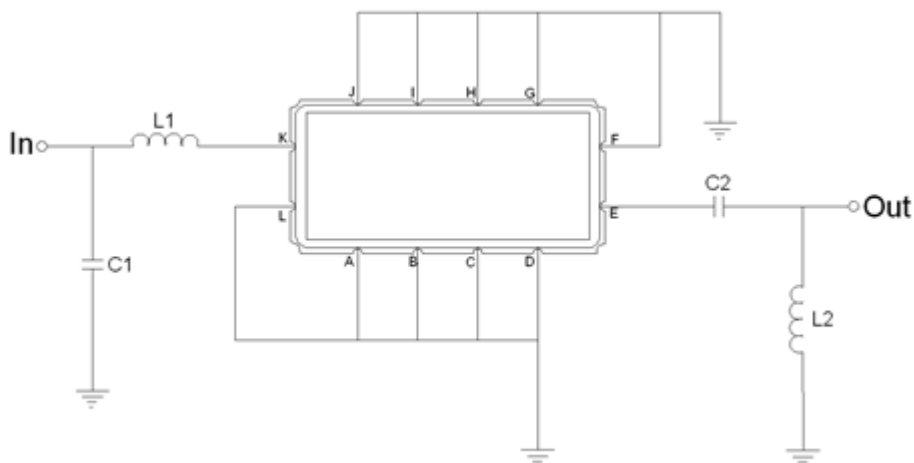
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA10803A:** 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



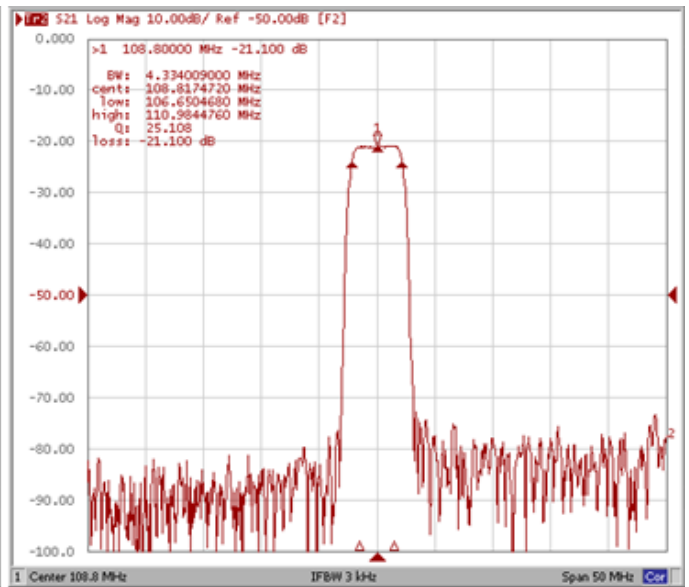
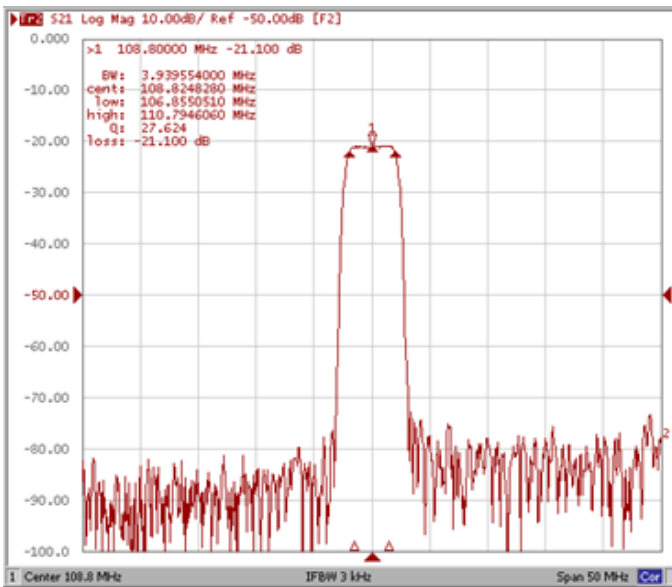
Test Fixture & Values	
Input	L1 = 10 nH, C1 = 36 pF
Output	L2 = 18 nH, C2 = 240 pF
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

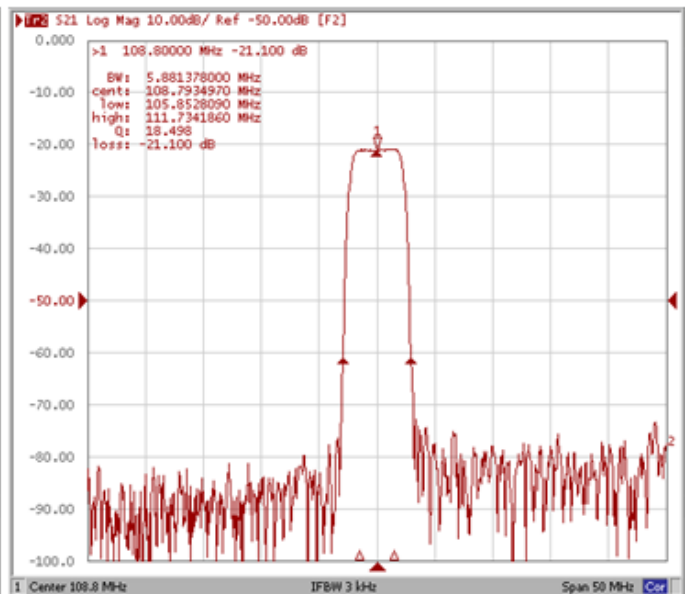
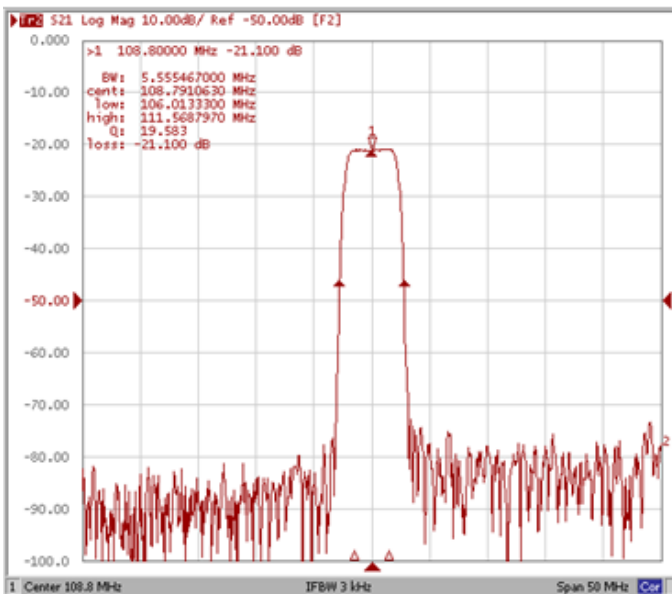
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -25.0 dB

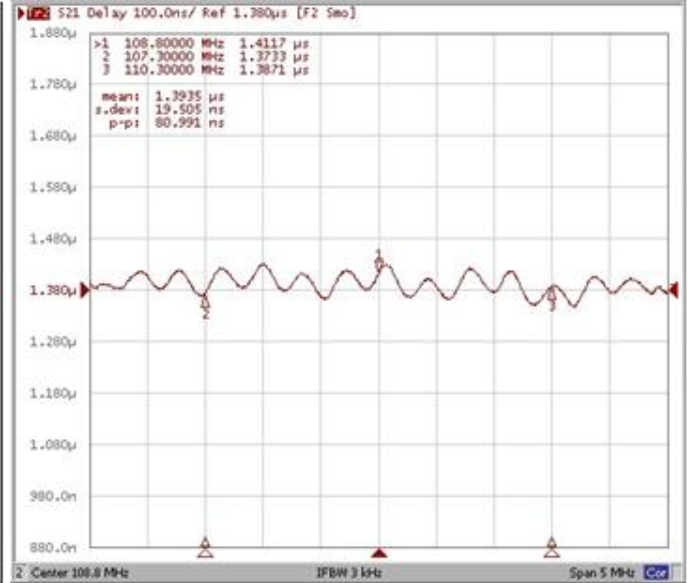
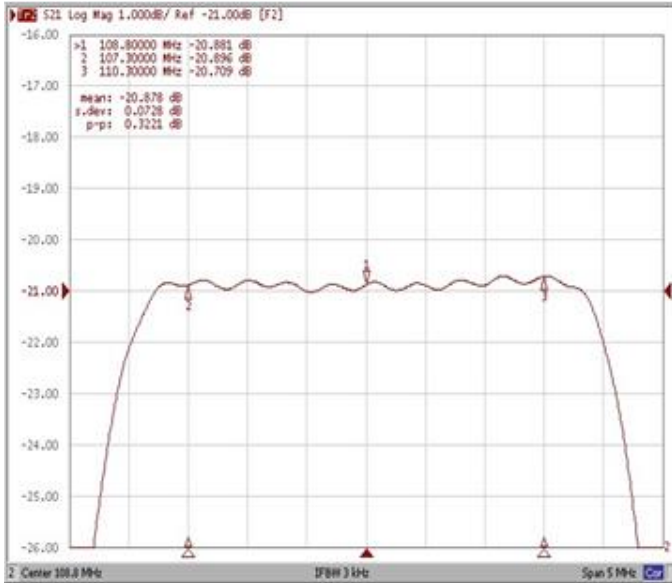
Bandwidth at -40.0 dB



Frequency Response

Ripple Variation Fo±1.50MHz

Group Delay Variation Fo±1.50MHz



Smith Chart

VSWR

