

- 107.52 MHz IF SAW Filter / 24.35 MHz Bandwidth
- Revision 1: 17 Mar. 2009

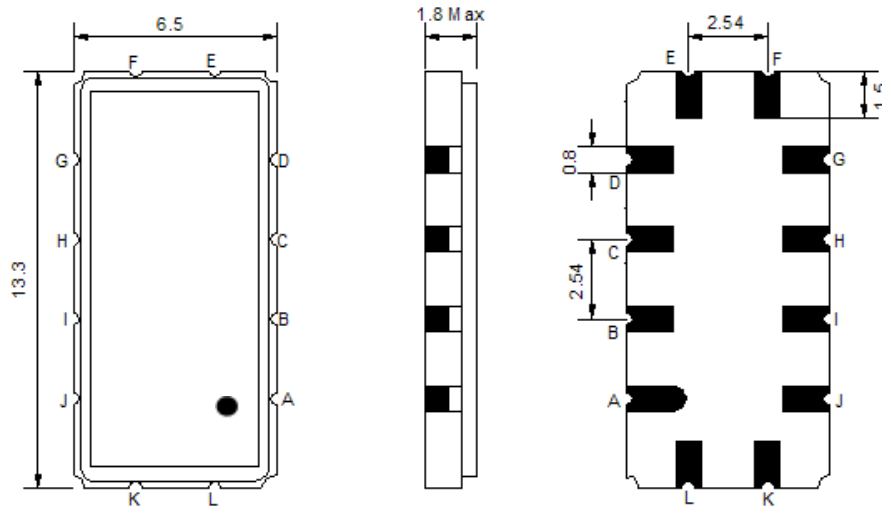
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-10	-	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	-	107.52	-
Insertion Loss at Fo	dB	-	10.5	14.0
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple Variation				
Fo -10MHz(-25 ~ +85°C)	dB _{p-p}		0.6	1.0
Fo +10MHz(-40 ~ -25°C)	dB _{p-p}		0.8	1.2
Group Delay Variation(Fo ±10 MHz)	nsec	-	50	100
Absolute Delay at Fo	nsec	600.0	663.3	780.0
Bandwidth at -3.0 dB	MHz	21.20	24.35	-
Relative Attenuation				
10MHz ~ 79.52MHz	dB	45	60	-
66.8MHz ~ 86.8MHz	dB	50	55	-
79.52MHz ~ 91.52MHz	dB	35	50	-
123.52MHz ~ 135.32MHz	dB	35	45	-
128.24MHz ~ 148.24MHz	dB	45	52	-
135.32MHz ~ 185.04MHz	dB	40	55	-
185.04MHz ~ 245.04MHz	dB	32	52	-
245.04MHz ~ 250.0MHz	dB	40	55	-
250.0MHz ~ 450MHz	dB	40	50	-
450MHz ~ 1000MHz	dB	35	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.

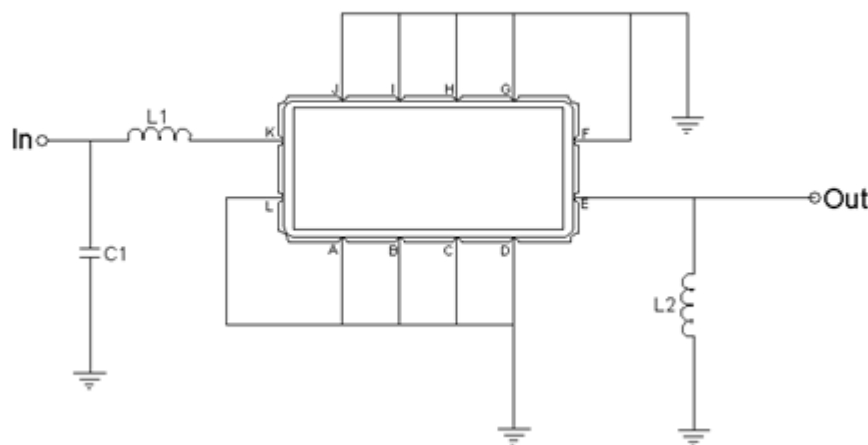
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL10723A:** 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



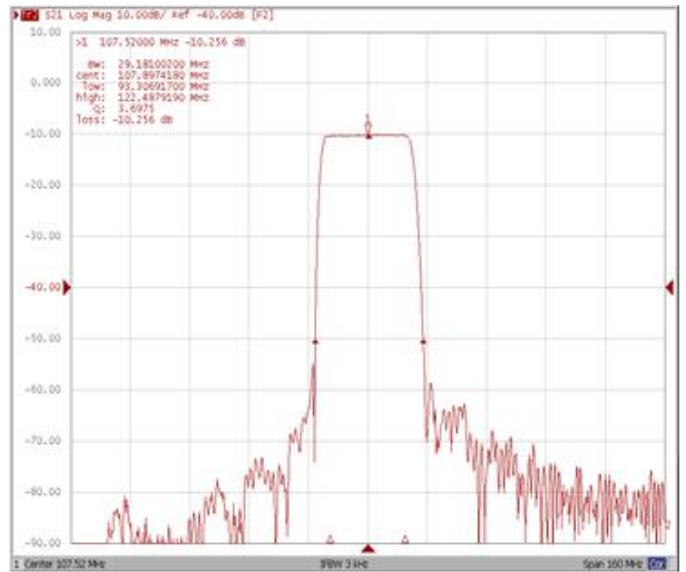
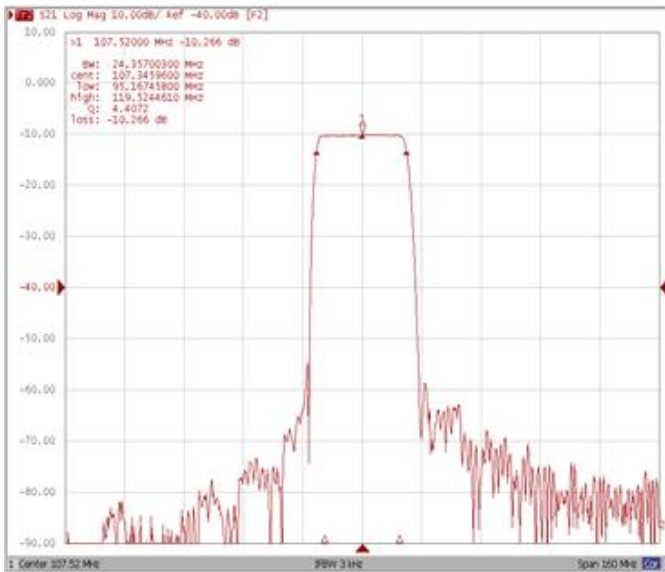
Test Fixture & Values	
Input	L1=56nH, C1=62pF
Output	L2=56nH
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

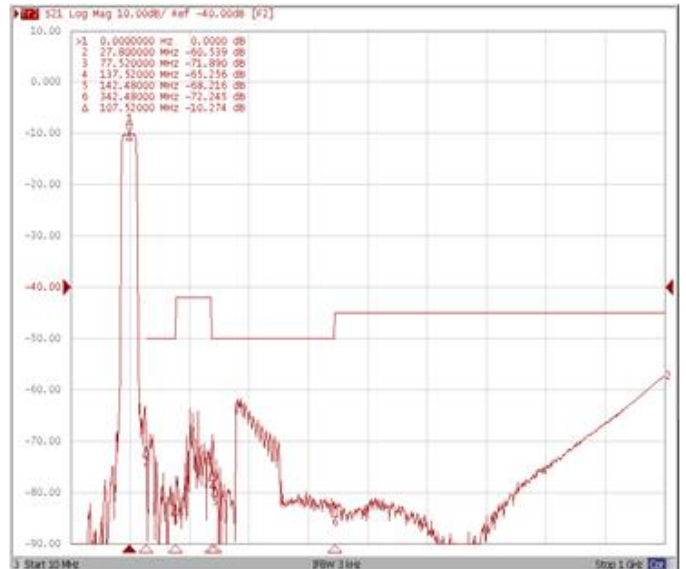
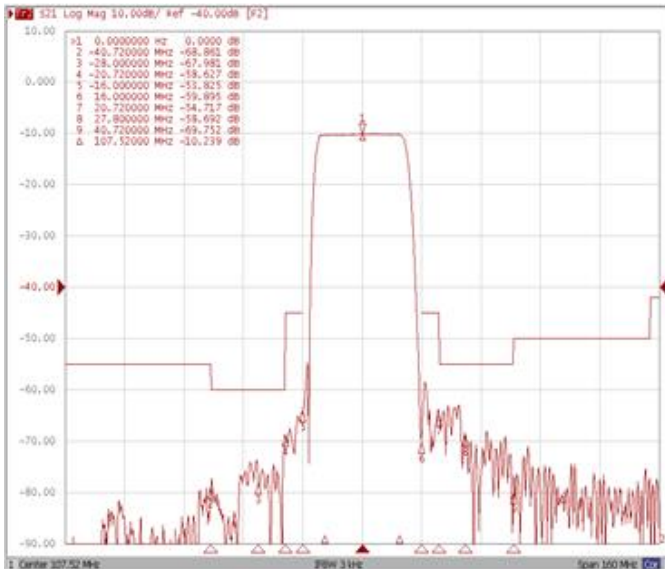
Bandwidth at -1.0 dB

Bandwidth at -40.0 dB



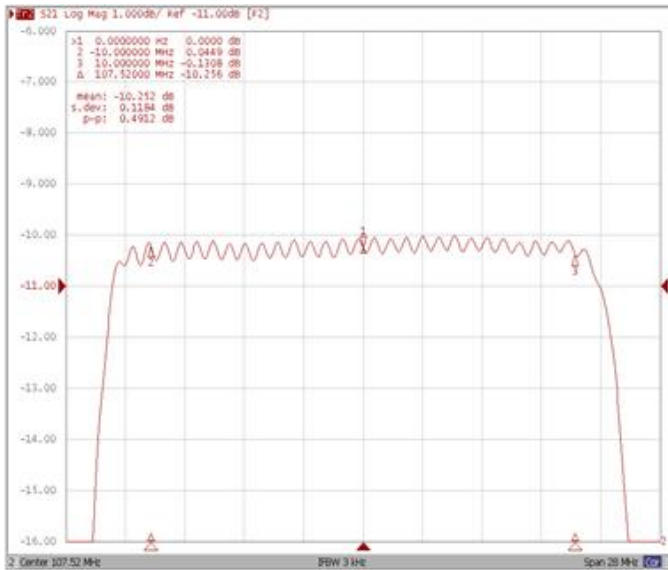
Relative Attenuation

Relative Attenuation Wide Band

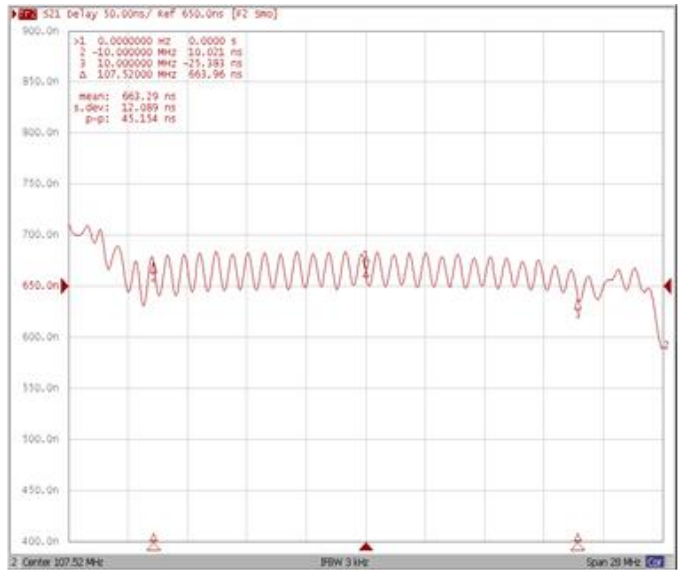


Frequency Response

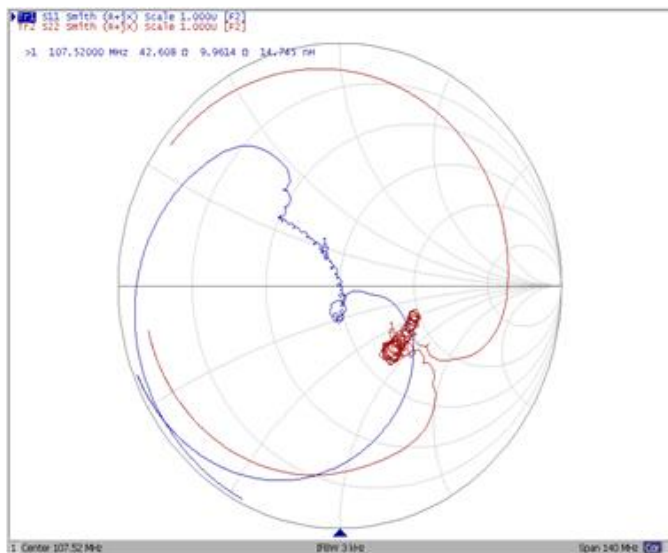
Ripple Variation Fo±10.0MHz



Group Delay Variation Fo±10.0MHz



Smith Chart



SWR

