

- 86.50 MHz IF SAW Filter / 6.36 MHz Bandwidth
- Revision 0: 30 Jan. 2012

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating 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	86.35	86.50	86.65
Insertion Loss at Fo	dB	-	14.00	16.00
Group Delay Variation at Fo ± 2.5 MHz	nsec	-	21	60
Absolute Delay at Fo	usec	-	1.04	-
Passband Ripple Variation at Fo ± 2.5 MHz	dB	-	0.25	0.90
Bandwidth at -1dB	MHz	6.00	6.35	-
Bandwidth at -3dB	MHz	-	7.10	-
Bandwidth at -30dB	MHz	-	9.40	-
Bandwidth at -40dB	MHz	-	9.80	10.20
Ultimate Rejection	dB	45	48	-
Temperature Coefficient	ppm/°C	-	-20	-

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.

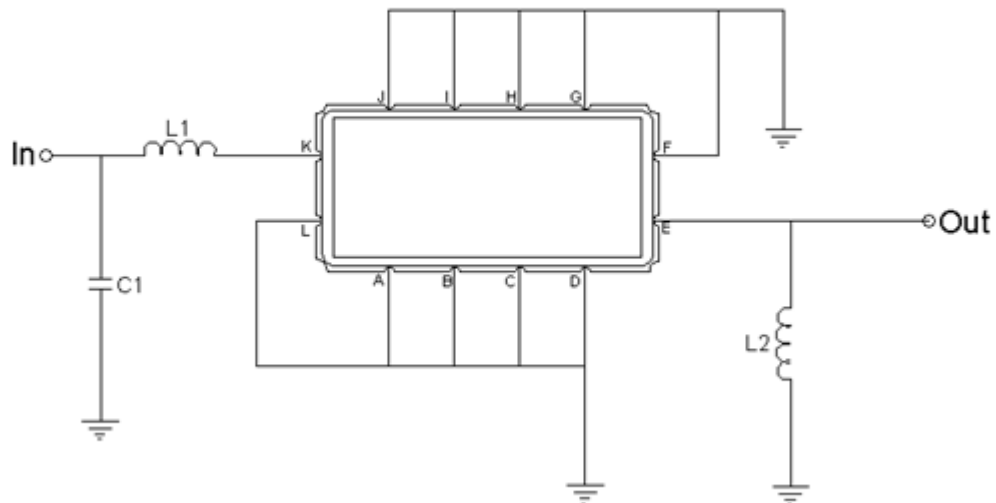
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL08606A:** 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=100pF
Output	L2 = 33nH
Source/Load Impedance	50 Ω

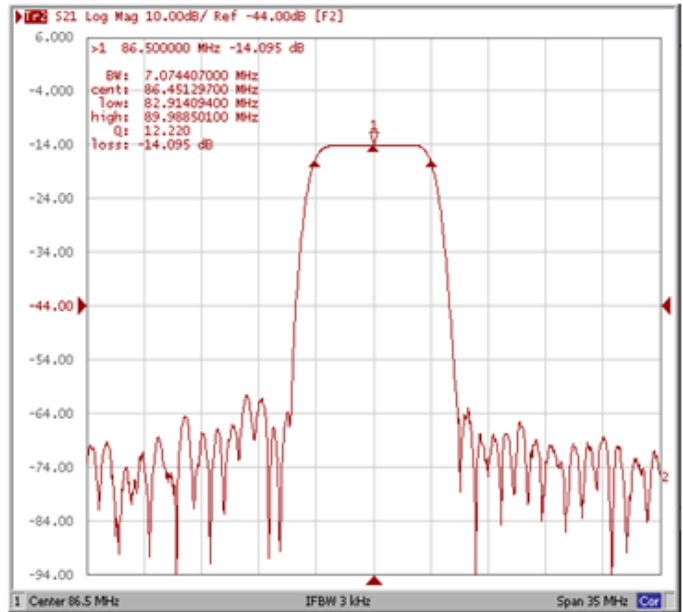
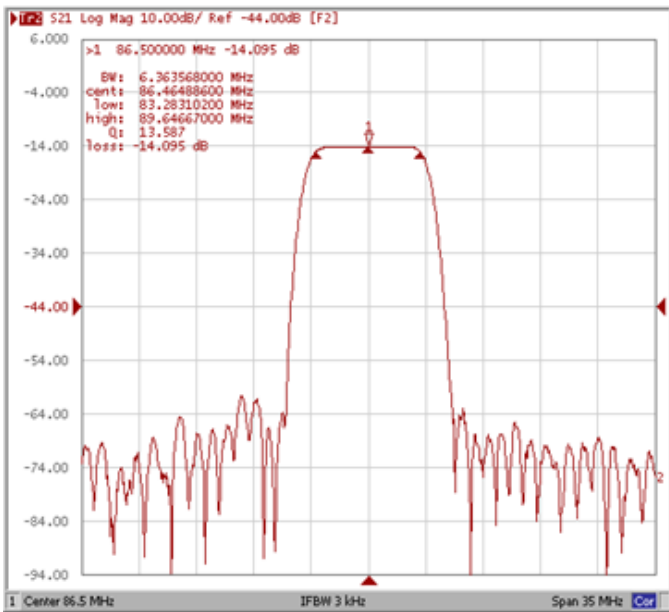
Frequency Characteristics

Frequency Response

Operating Temperature : +25 °C

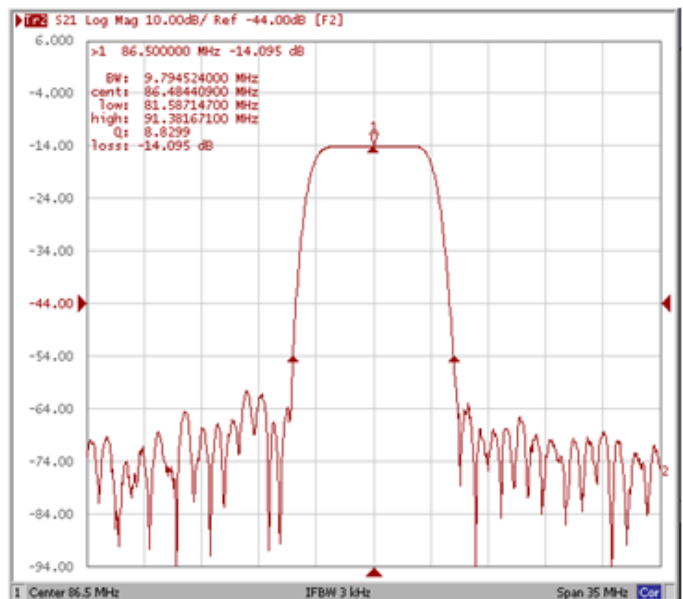
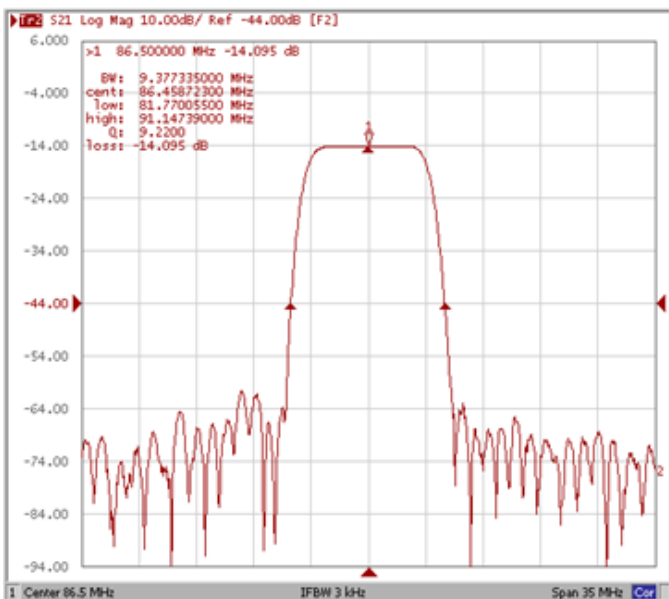
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -30.0 dB

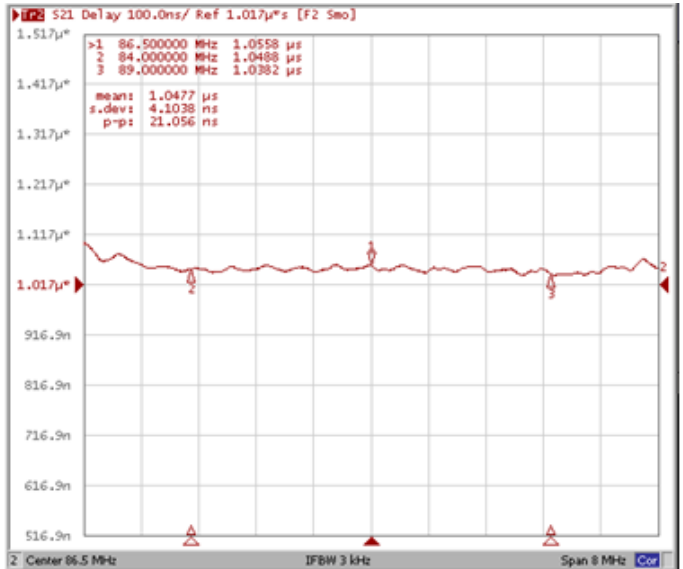
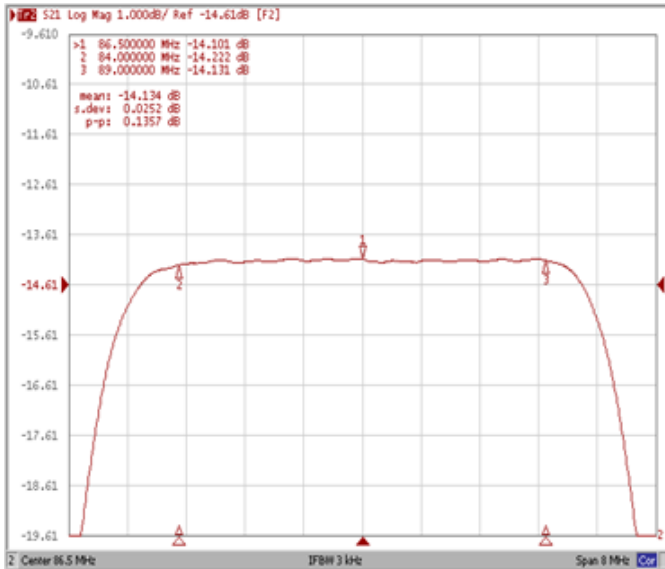
Bandwidth at -40.0 dB



Frequency Response

Ripple Variation Fo±2.5MHz

Group Delay Variation Fo±2.5MHz



Smith Chart

VSWR

