

- 85.10 MHz IF SAW Filter / 22.20 MHz Bandwidth
- Revision 0: 22 Jul. 2009

## 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) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	85.1	-
Insertion Loss at Fo	dB	-	13.0	15.0
Group Delay Variation (Fo±9.42MHz)	ns	-	18	35
Absolute Delay Time at Fo	us	-	0.97	-
Amplitude Ripple (Fo±9.42MHz)	dB	-	0.25	0.90
Bandwidth at -1dB	MHz	21.90	22.20	-
Bandwidth at -10dB	MHz	-	24.40	-
Bandwidth at -20dB	MHz	-	25.48	25.80
Bandwidth at -40dB	MHz	-	26.75	-
Ultimate Rejection	dB	40	47	-
Temperature Coefficient	ppm/°C	-	-86	-

**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.

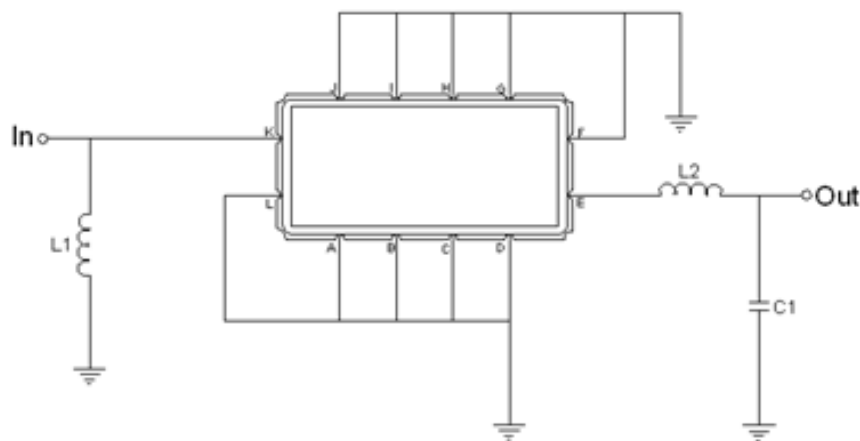
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL08522B:** 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

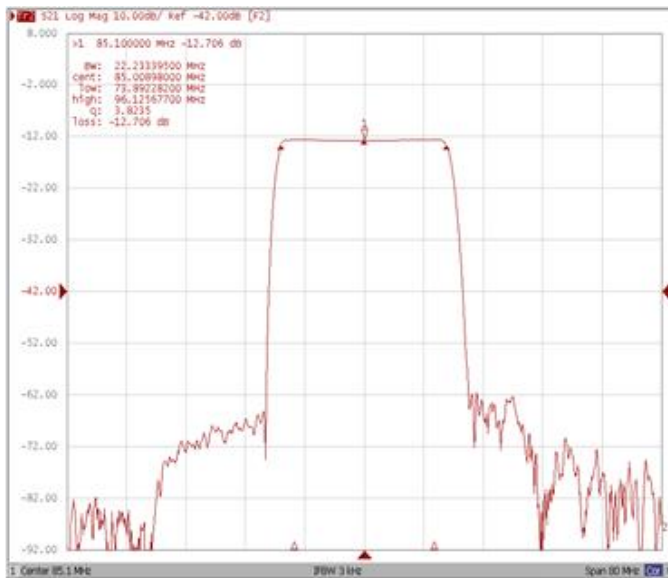


Test Fixture & Values	
Input	L1 = 56 nH
Output	L2 = 100 nH , C2 = 39 pF
Source/Load Impedance	50 Ω

## Frequency Characteristics

### Frequency Response

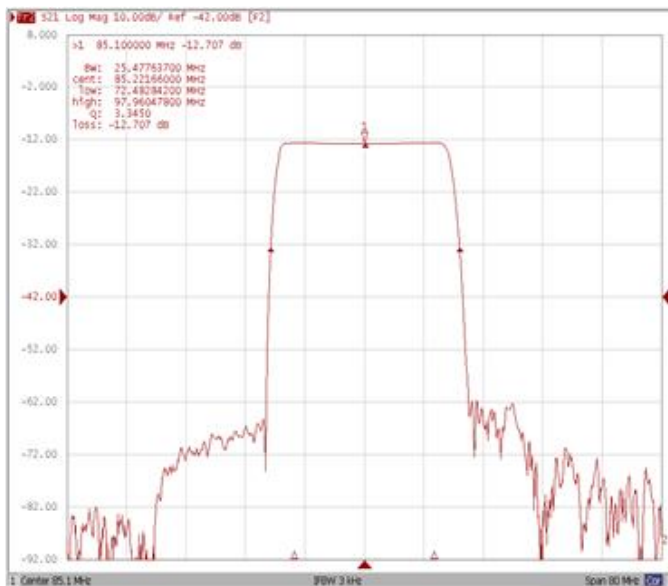
**Bandwidth at -1.0 dB**



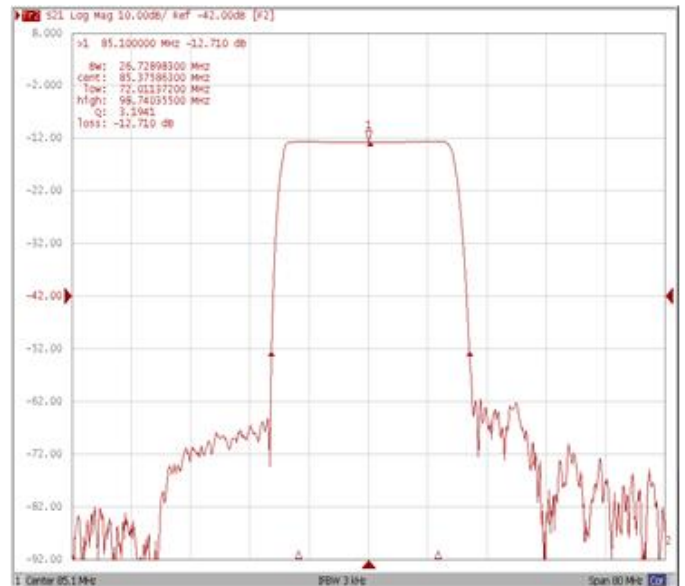
**Bandwidth at -10.0 dB**



**Bandwidth at -20.0 dB**



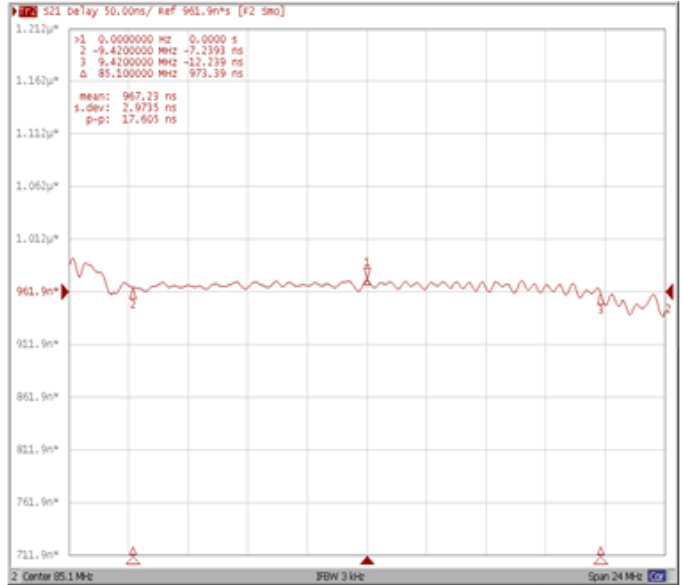
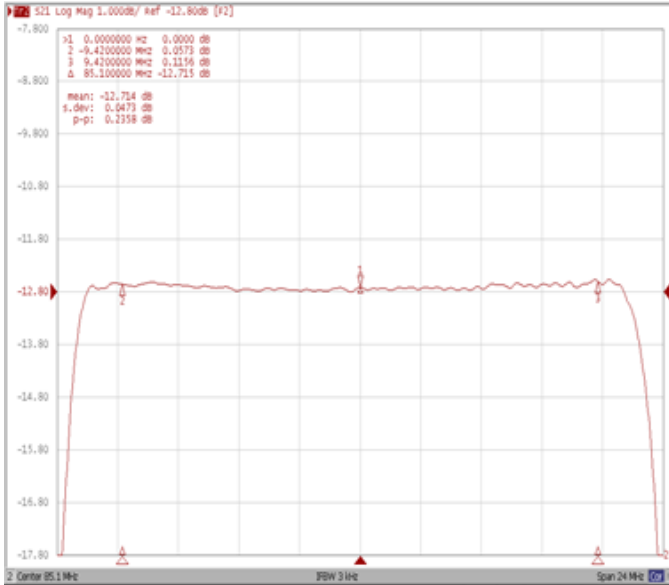
**Bandwidth at -40.0 dB**



**Frequency Response**

**Ripple Variation Fo±9.42MHz**

**Group Delay Variation Fo±9.42MHz**



**Smith Chart**

**SWR**

