

- 95.0 MHz IF SAW Filter / 19.42 MHz Bandwidth
- Revision 0: 06 Aug. 2008

## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-	25	-
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	-	95.0	-
Insertion Loss at Fo	dB	-	14.80	16.00
Temperature Coefficient	ppm/°C	-	-86	-
Passband Ripple (fo ±9.50 MHz)	dB <sub>p-p</sub>	-	0.50	0.90
Group Delay Variation (fo ±9.50 MHz)	nsec	-	75	120
Absolute Delay at Fo	µsec	-	1.14	-
Bandwidth at -1.0 dB	MHz	-	19.42	-
Bandwidth at -3.0 dB	MHz	19.90	20.15	-
Bandwidth at -40.0 dB	MHz	-	23.25	23.60
Ultimate Rejection	dB	40	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.

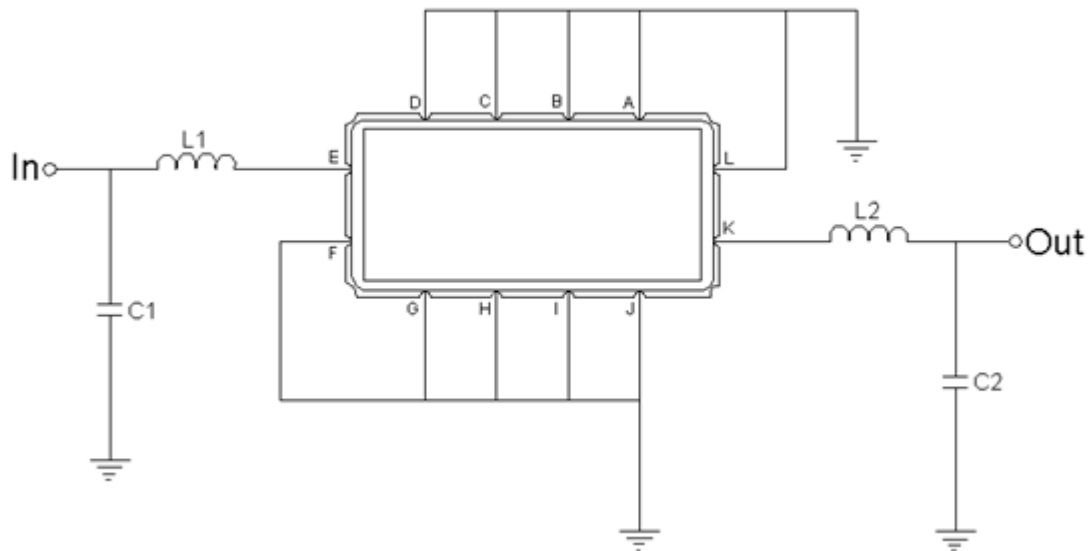
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL09519A:** 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
E	Input
K	Output

## Testing Environment

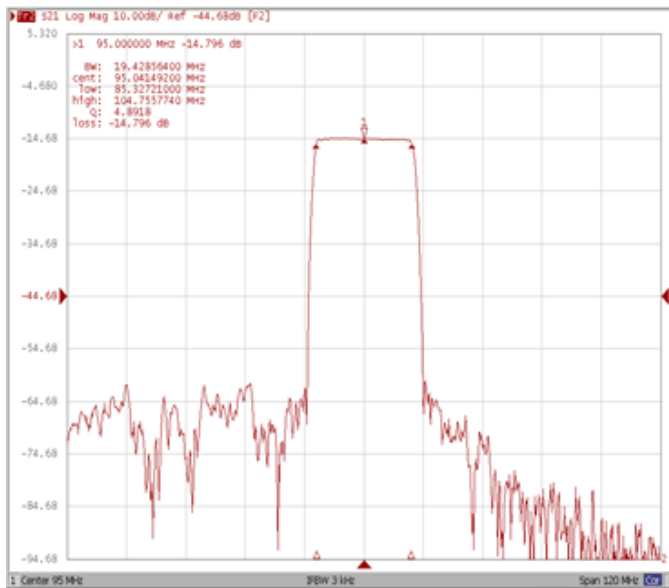


Test Fixture & Values	
<b>Input</b>	L1=150nH, C1=20p
<b>Output</b>	L2=120nH, C2=33p
<b>Source/Load Impedance</b>	50 Ω

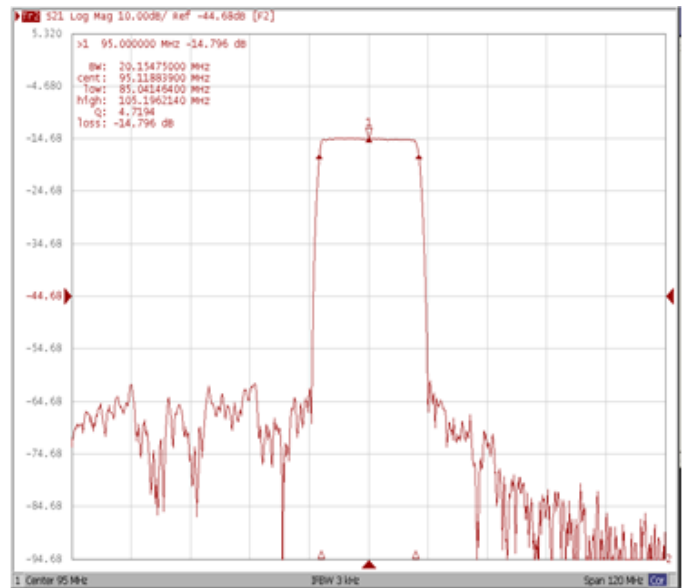
## Frequency Characteristics

### Frequency Response

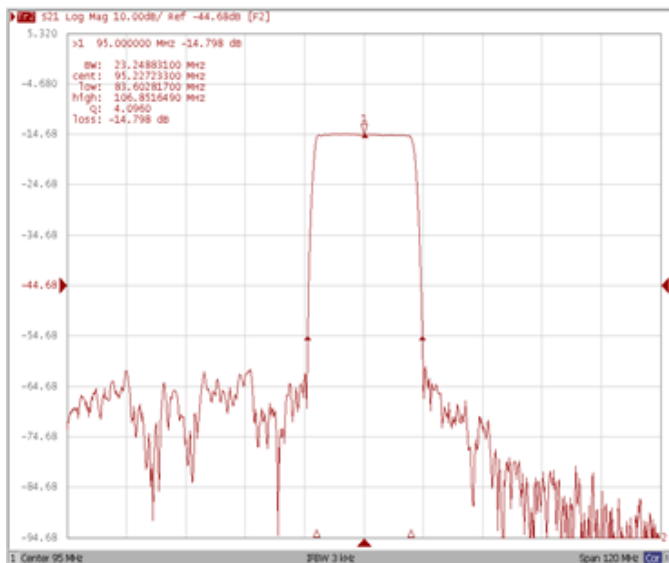
**Bandwidth at -1.0 dB**



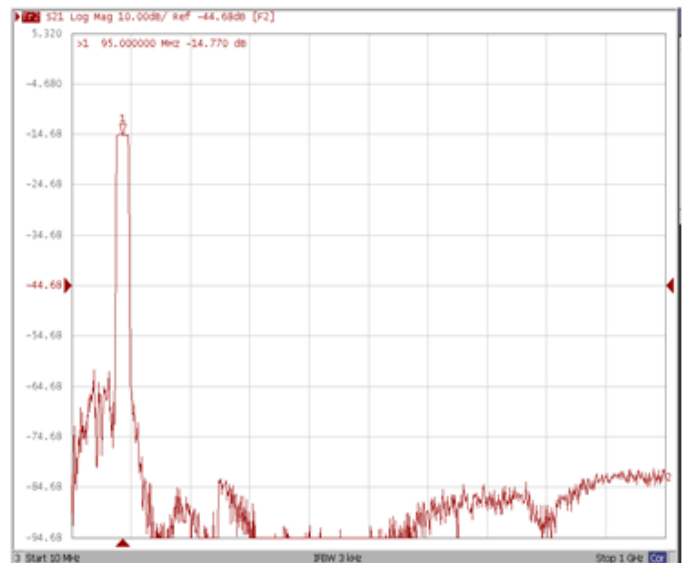
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**

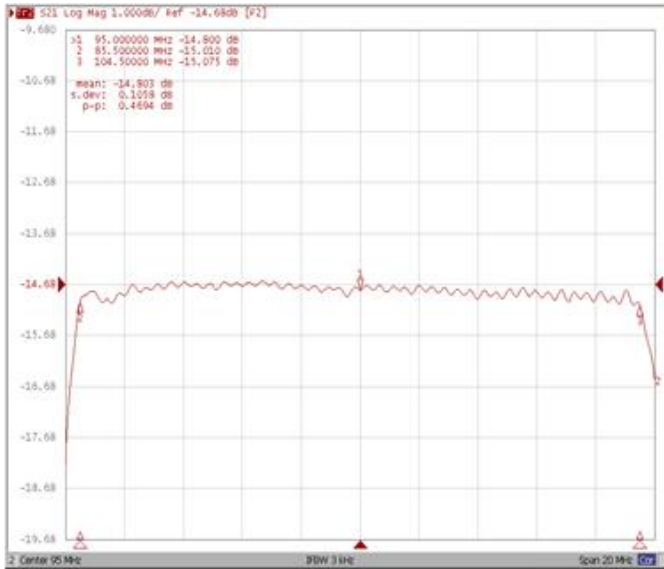


**Wide-Band**

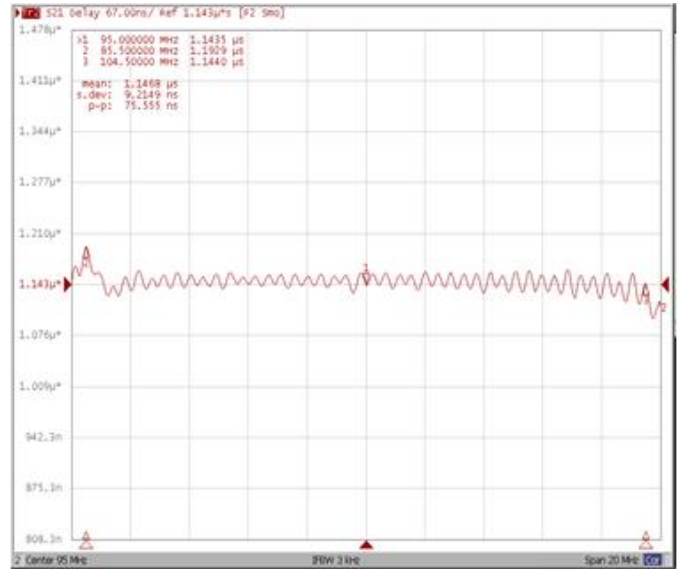


**Frequency Response**

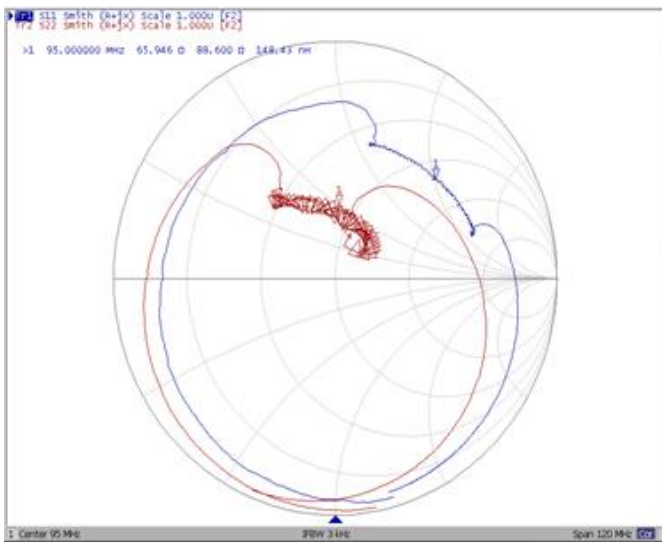
**Ripple Variation Fo±9.5MHz**



**Group Delay Variation Fo±9.5MHz**



**Smith Chart**



**SWR**

