

- 85.00 MHz IF SAW Filter / 20.46 MHz Bandwidth
- Revision 0: 29. Aug. 2008

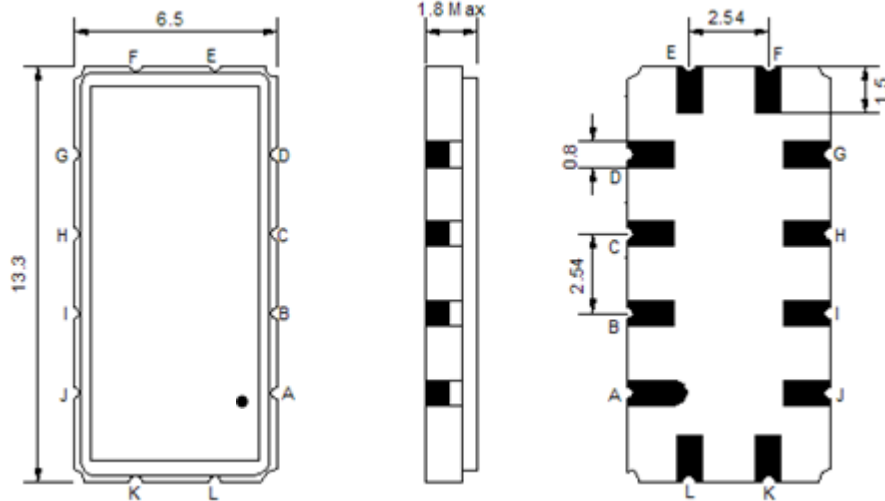
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-20	-	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	-	85.0	-
Insertion Loss at Fo	dB	-	23.50	25.00
Group Delay Variation at Fo ± 9.65 MHz	nsec	-	30	60
Absolute Delay at Fo	usec	-	1.64	-
Passband Ripple Variation at Fo ± 9.65 MHz	dB	-	0.55	0.90
Bandwidth at -1dB	MHz	20.00	20.46	-
Bandwidth at -3dB	MHz	-	20.88	-
Bandwidth at -25dB	MHz	-	22.32	-
Bandwidth at -40dB	MHz	-	22.66	22.90
Relative Attenuation				
Lower Sidelobe	dB	48	52	-
Upper Sidelobe	dB	48	52	-
Temperature Coefficient	ppm/°C	-	-72	-

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.

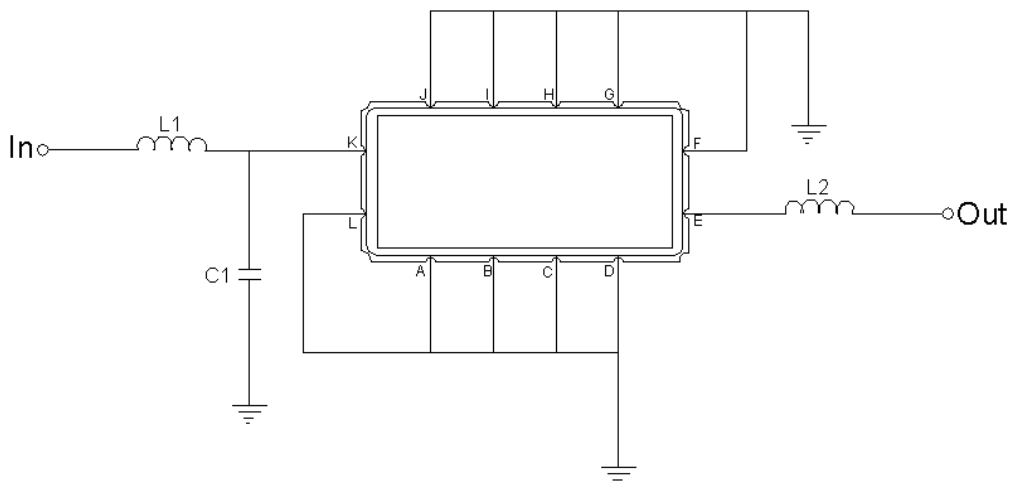
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA08520B:** 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

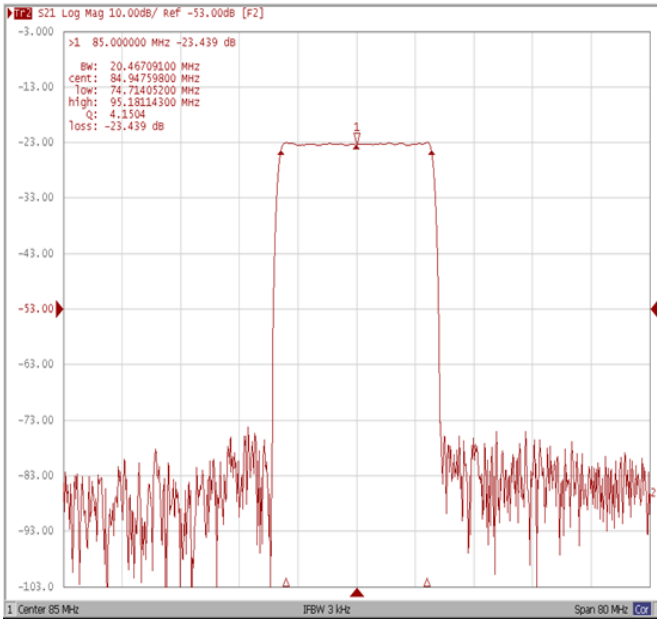


Test Fixture & Values	
Input	L1 = 120 nH, C2 = 9 pF
Output	L2 = 120 nH
Source/Load Impedance	50 Ω

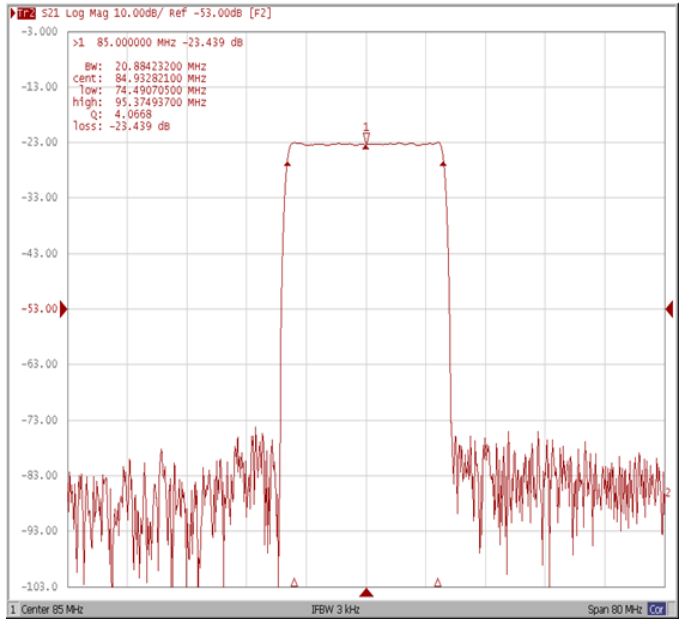
Frequency Characteristics

Frequency Response

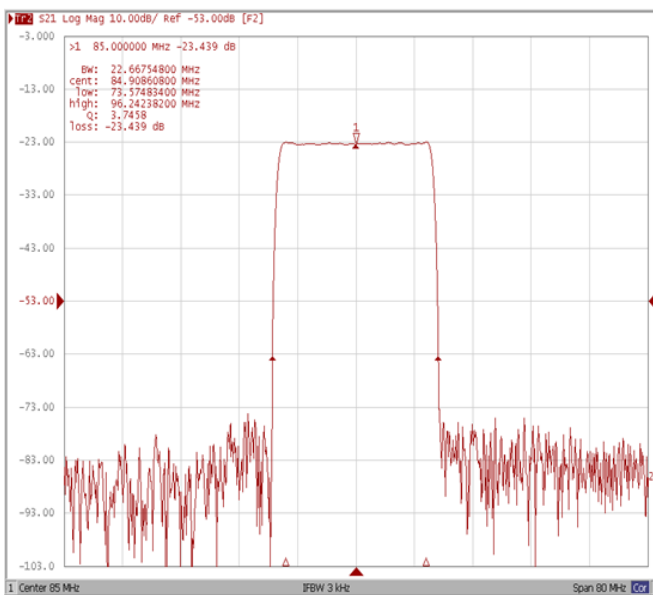
Bandwidth at -1.0 dB



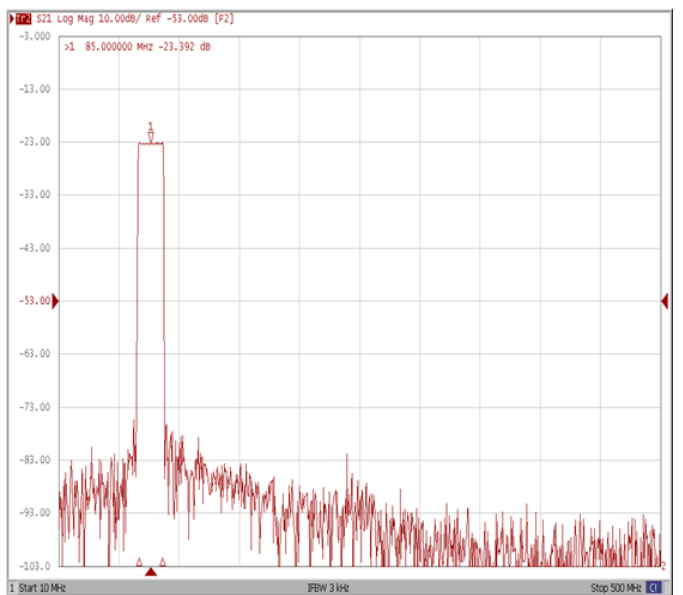
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

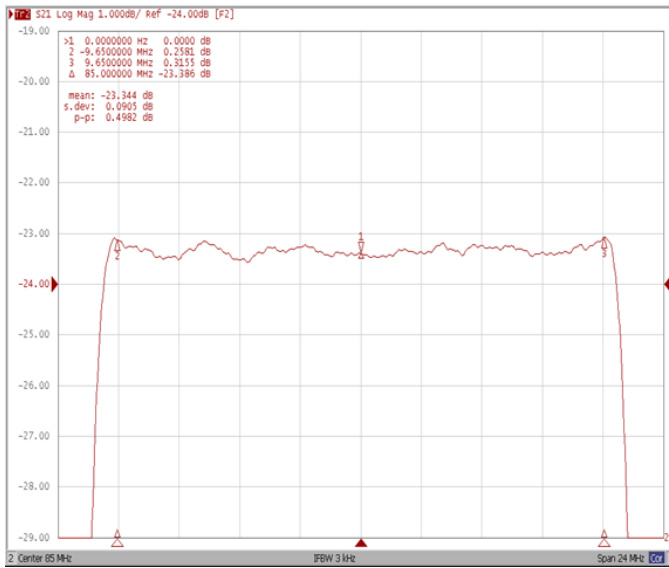


Wide-Band

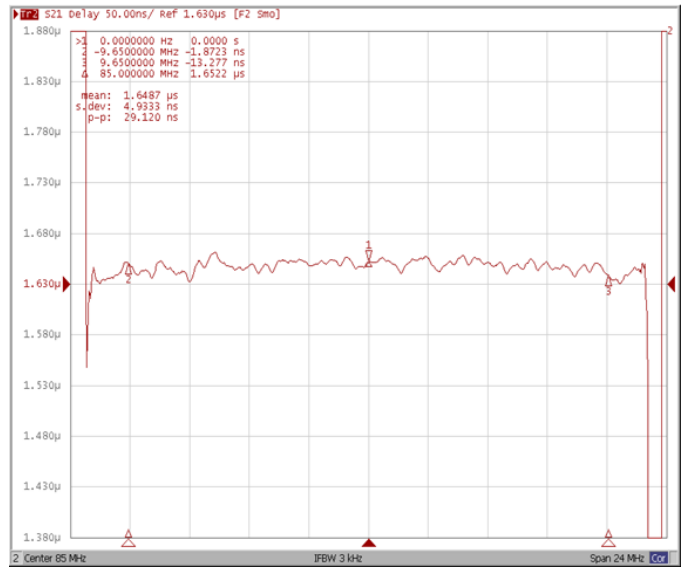


Frequency Response

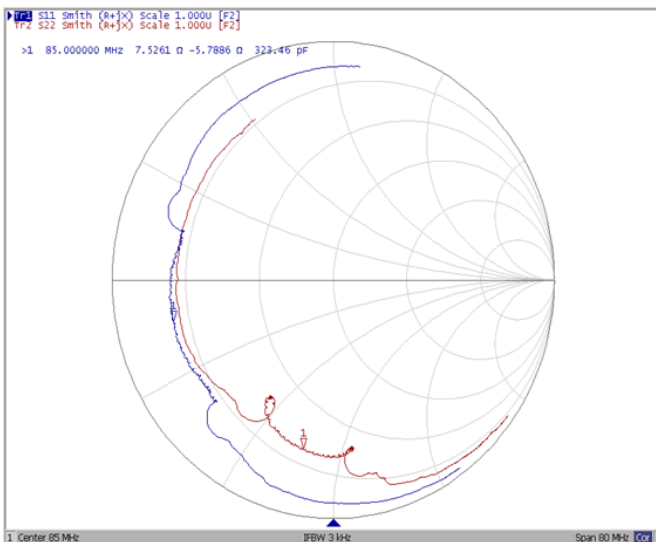
Ripple Variation Fo±9.65MHz



Group Delay Variation Fo±9.65MHz



Smith Chart



VSWR

