

- 497.00 MHz IF SAW Filter / 5.92 MHz Bandwidth
- Revision 0: 11. Jan. 2010

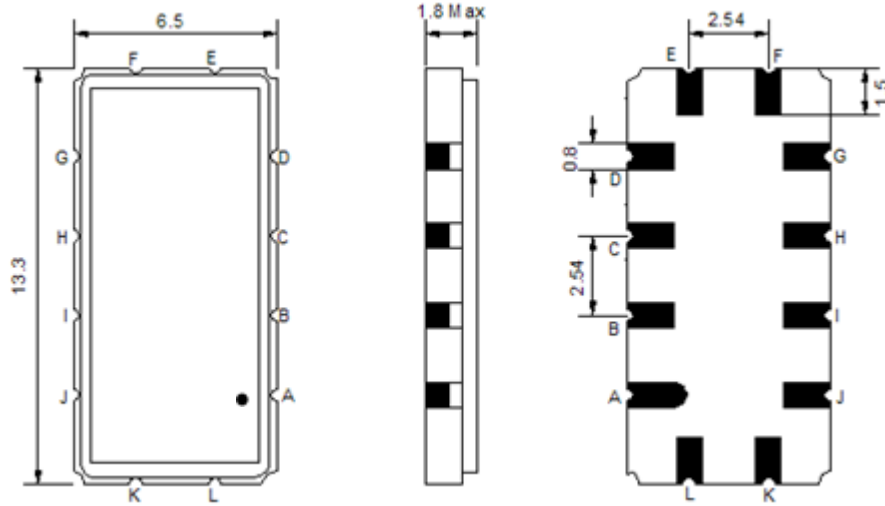
Electrical Characteristics

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	-	497.0	-
Insertion Loss at Fo	dB	-	21.8	23.0
Group Delay Variation at Fo ± 2.69 MHz	nsec	-	110	180
Absolute Delay at Fo	usec	-	1.38	
Passband Ripple Variation at Fo ± 2.69 MHz	dB	-	0.58	1.00
Bandwidth at -1dB	MHz	5.50	5.92	-
Bandwidth at -3dB	MHz	-	6.39	-
Bandwidth at -20dB	MHz	-	7.50	-
Bandwidth at -40dB	MHz	-	7.98	8.30
Ultimate Rejection	dB	-	52	-
Temperature Coefficient	ppm/°C	-	-0.03	-

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.

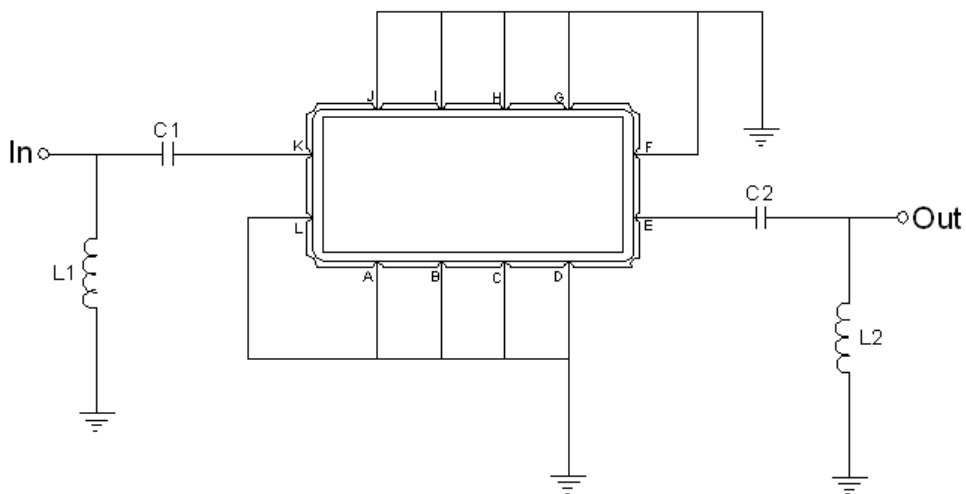
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA49705A:** 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

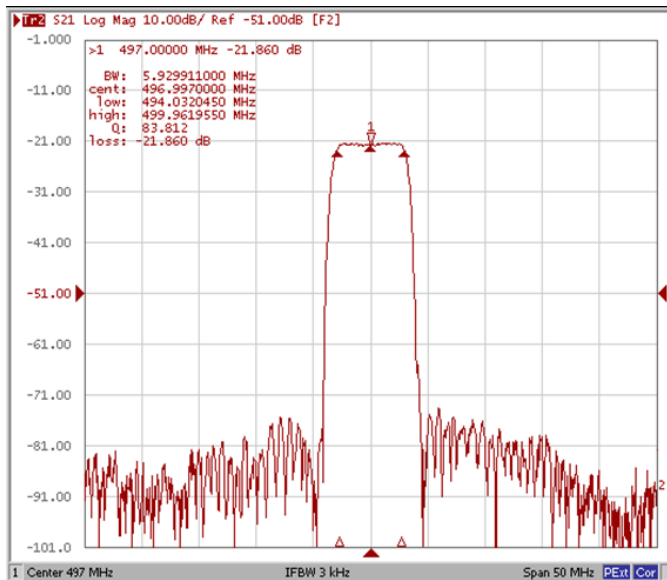


Test Fixture & Values	
Input	L1 = 5.6 nH, C1 = 14 pF
Output	L2 = 3.3 nH, C2 = 15 pF
Source/Load Impedance	50 Ω

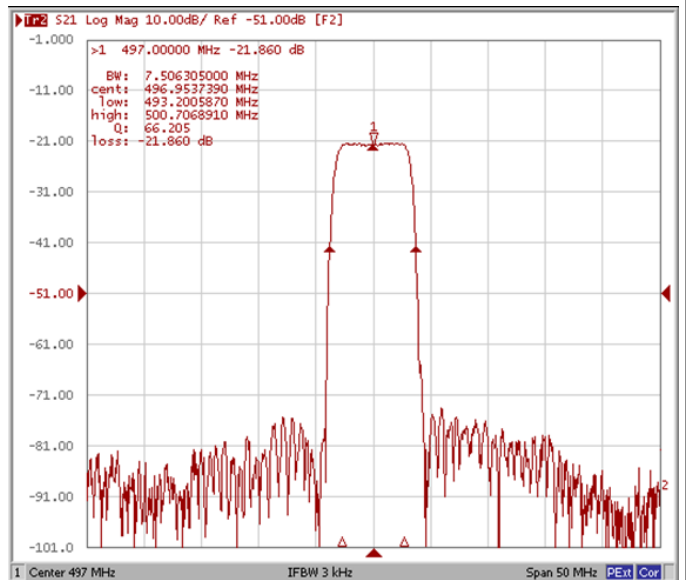
Frequency Characteristics

Frequency Response

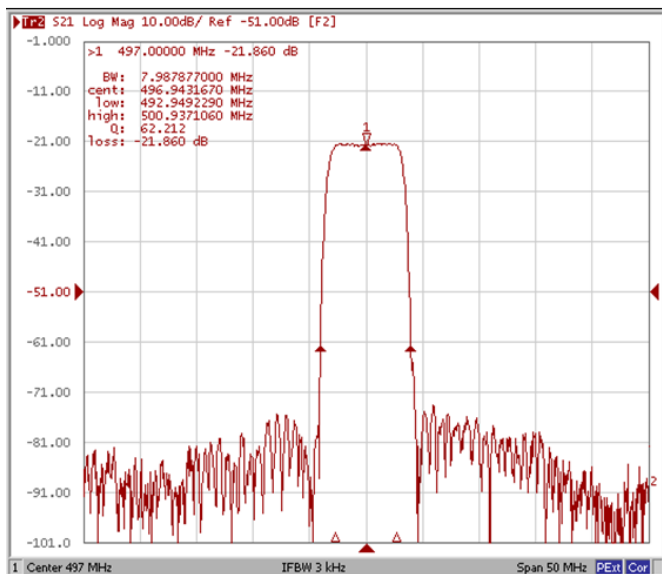
Bandwidth at -1.0 dB



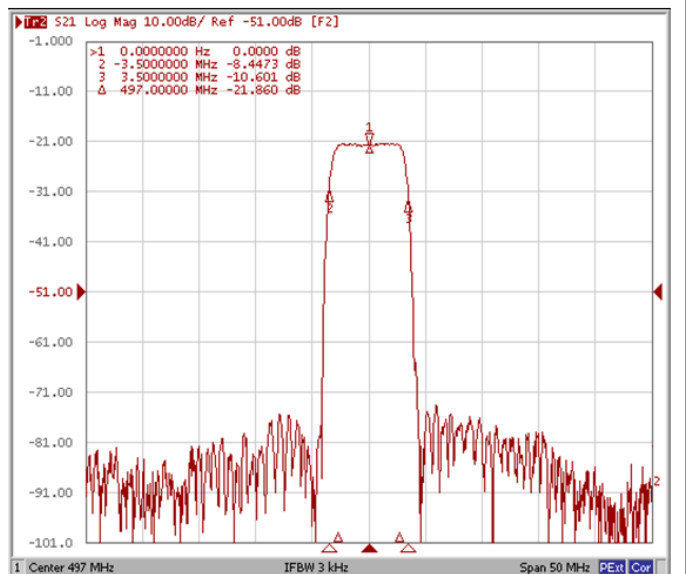
Bandwidth at -20.0 dB



Bandwidth at -40.0 dB

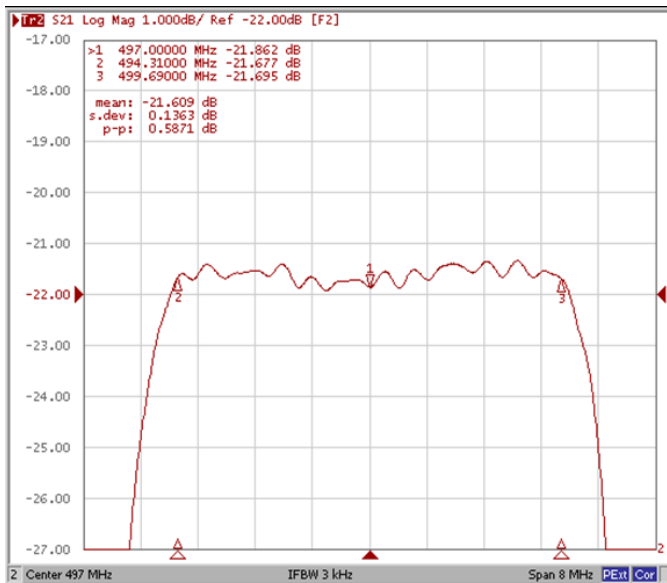


Attenuation (Fo±3.5MHz)

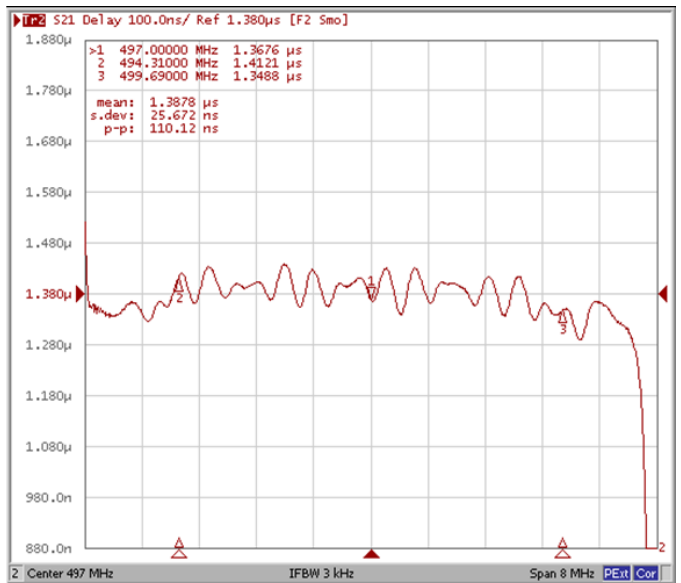


Frequency Response

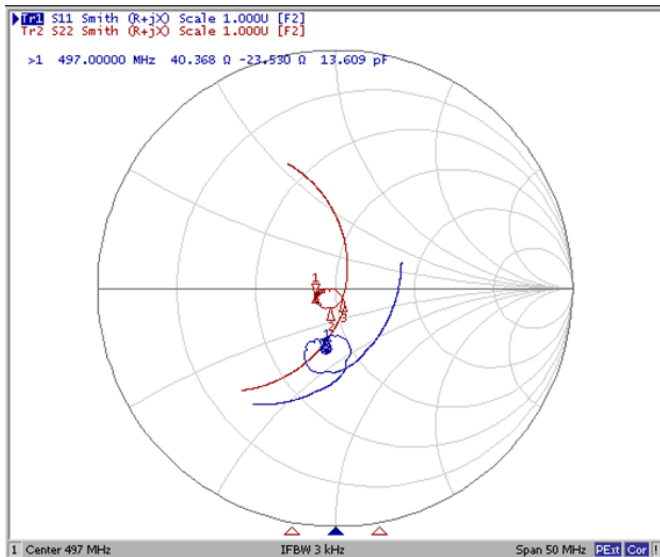
Ripple Variation Fo±2.69MHz



Group Delay Variation Fo±2.69MHz



Smith Chart



VSWR

