

- 70.0 MHz IF SAW Filter / 19.83 MHz Bandwidth
- Revision 0: 21 Nov. 2007

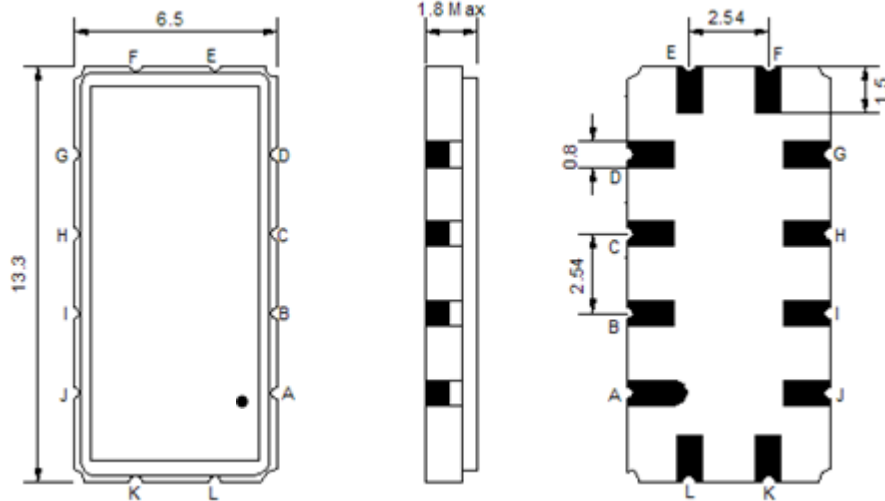
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-40	-	85
Storage Temperature Range	°C	-45	-	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	-	70.00	-
Insertion Loss at Fo	dB	-	26.0	28.0
Group Delay Variation (Fo±9.22MHz)	ns	-	20	50
Absolute Delay	us	-	1.61	-
Passband Ripple (Fo±9.22MHz)	dB	-	0.55	1.00
Bandwidth at -1dB	MHz	-	19.36	-
Bandwidth at -3dB	MHz	19.60	19.88	-
Bandwidth at -40dB	MHz	-	21.77	22.00
Ultimate Rejection	dB	45	50	-
Relative Attenuation Fo±10.8MHz	dB	20	33	-
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.

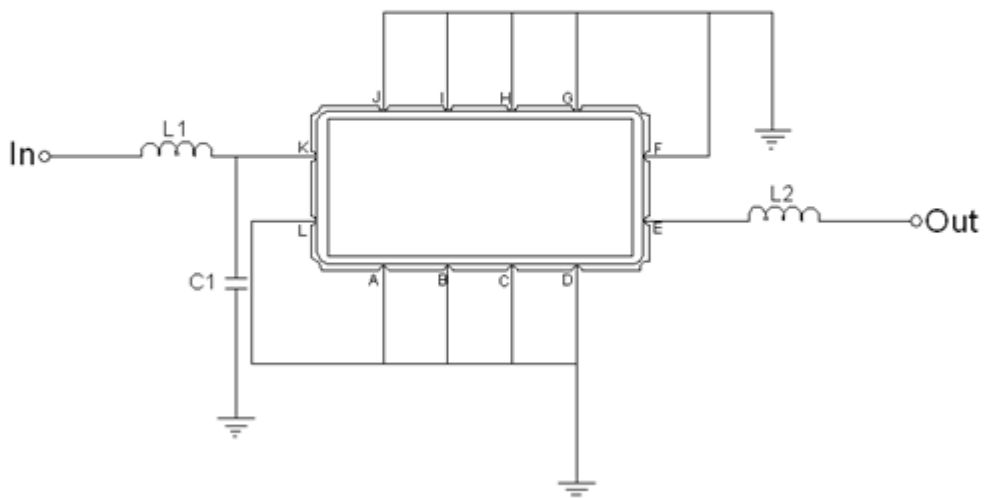
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA7019A:** 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



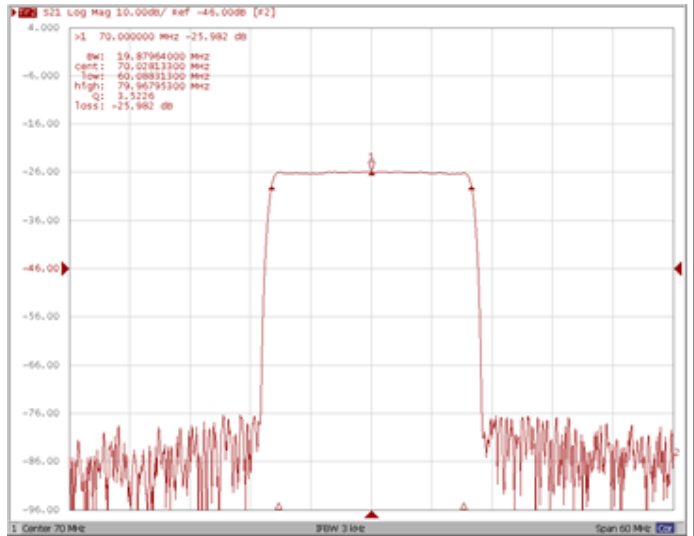
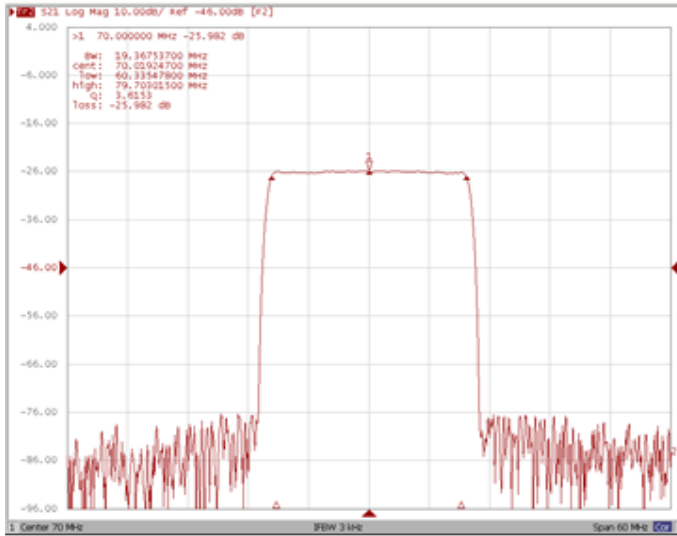
Test Fixture & Values	
Input	L1=180 nH, C1=12pF
Output	L2=150 nH
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

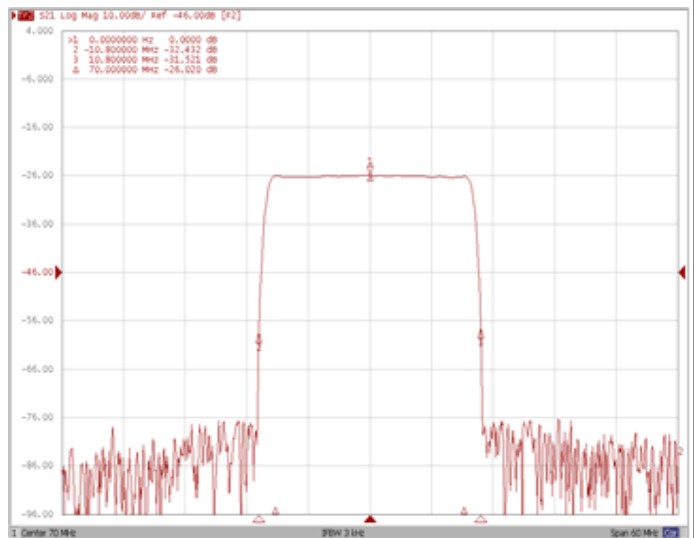
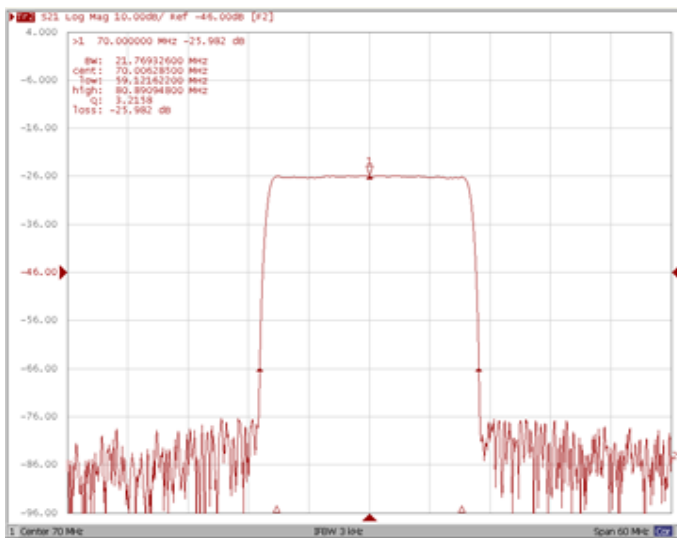
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



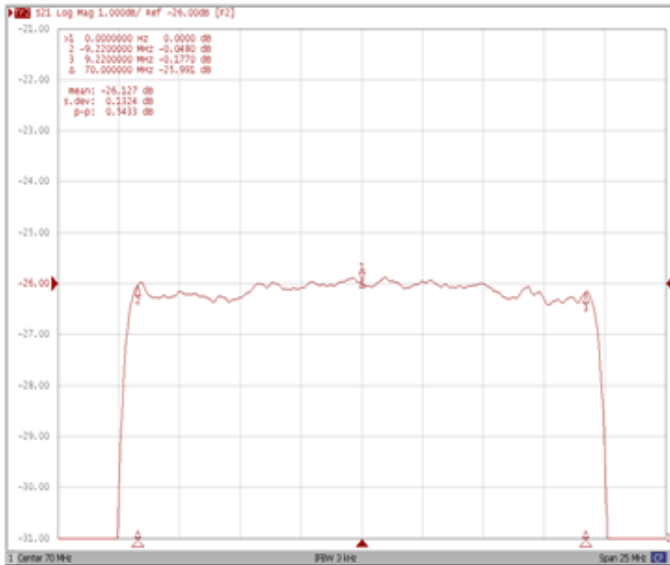
Bandwidth at -40.0 dB

Relative Attenuation $F_{0\pm 10.8\text{MHz}}$

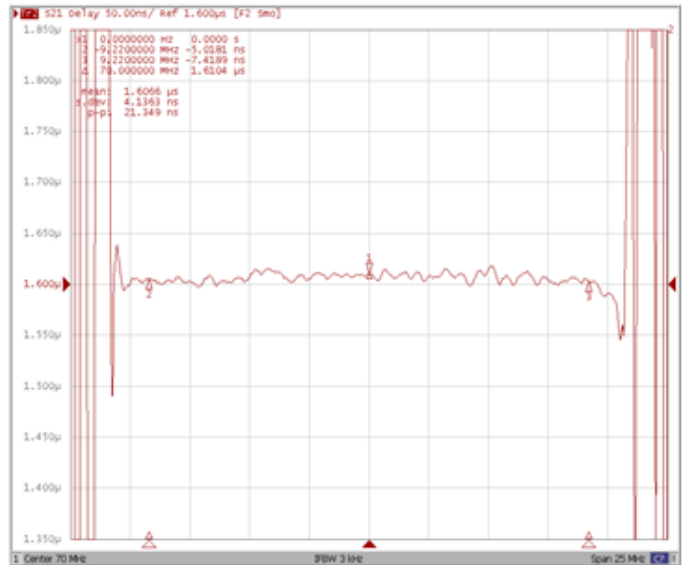


Frequency Response

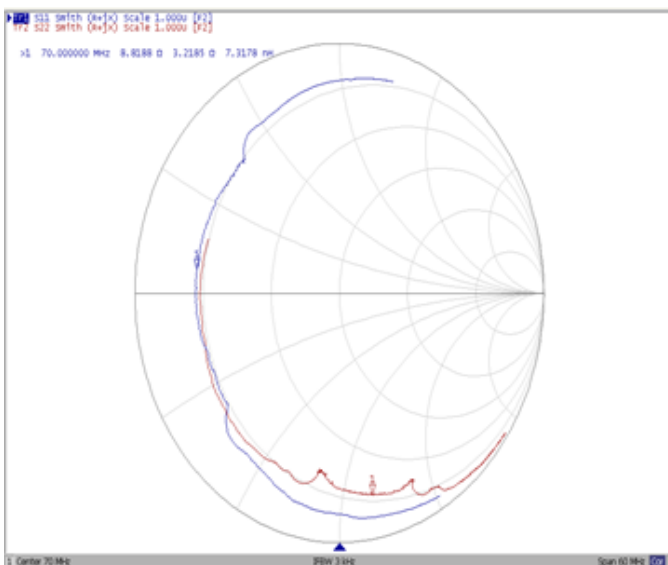
Ripple Variation Fo±9.22MHz



Group Delay Variation Fo±9.22MHz



Smith Chart



VSWR

