

- 160.00 MHz IF SAW Filter / 4.54 MHz Bandwidth
- Revision 0: 04. Apr. 2008

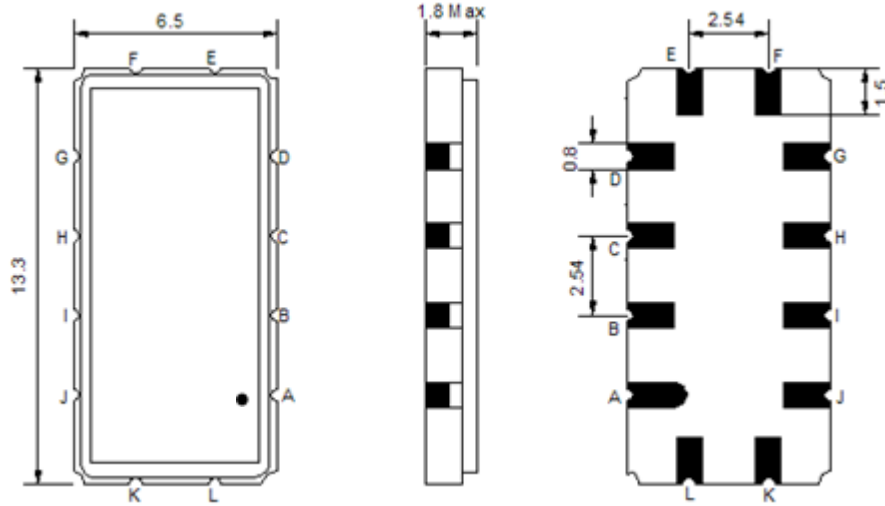
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation 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	159.85	160.0	160.15
Insertion Loss at Fo	dB	-	21.0	22.5
Group Delay Variation	ns	-	45	100
Absolute Delay	us	-	1.62	-
Passband Ripple	dB	-	0.45	1.0
Bandwidth at -1dB	MHz	4.40	4.54	-
Bandwidth at -3dB	MHz	-	5.30	-
Bandwidth at -40dB	MHz	-	7.98	8.30
Relative Attenuation:				
Lower sidelobe	dB	50	55	-
Upper sidelobe	dB	50	55	-
Temperature Coefficient	ppm/°C	-	-18	-

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.

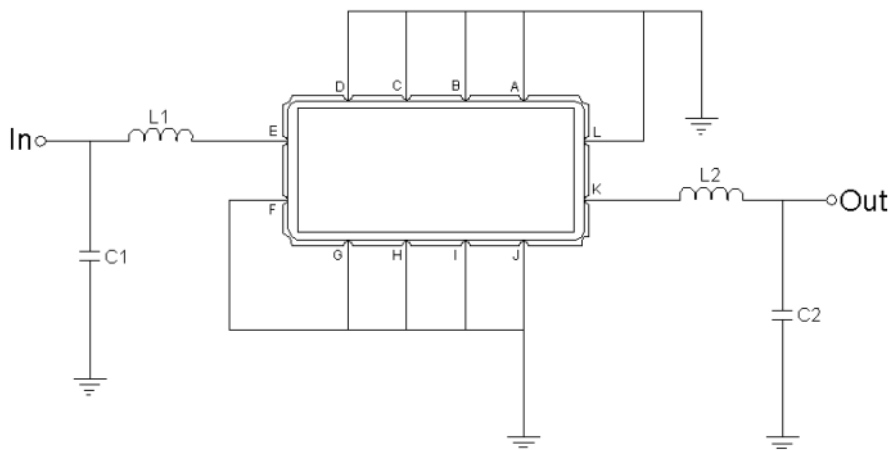
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA16004A:** 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

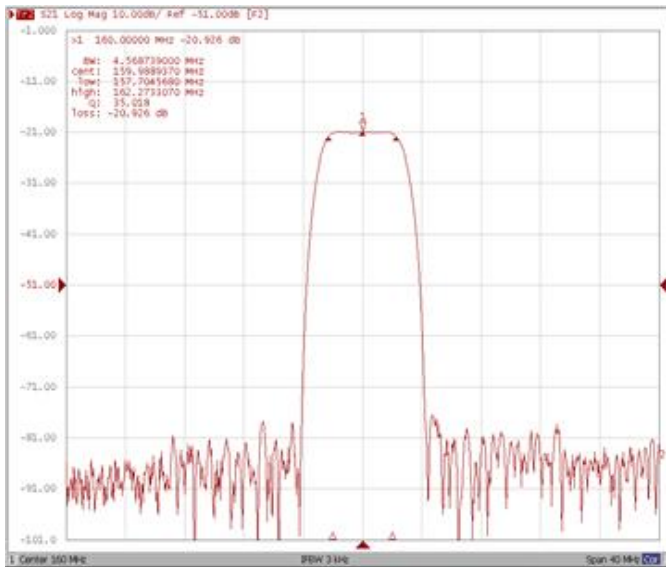


Test Fixture & Values	
Input	L1=27 nH, C1=24 pF
Output	L2=27 nH, C2=24 pF
Source/Load Impedance	50 Ω

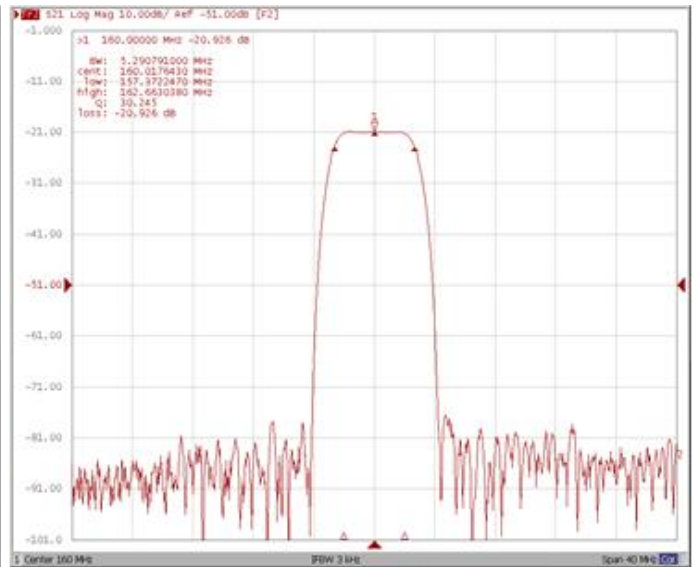
Frequency Characteristics

Frequency Response

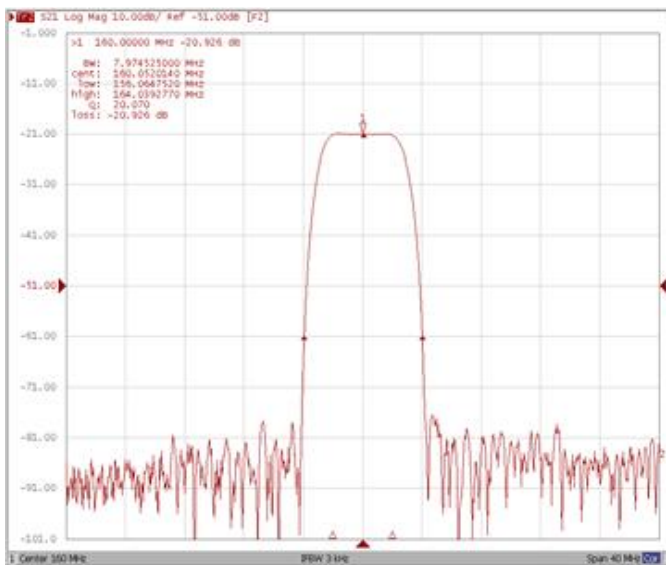
Bandwidth at -1.0 dB



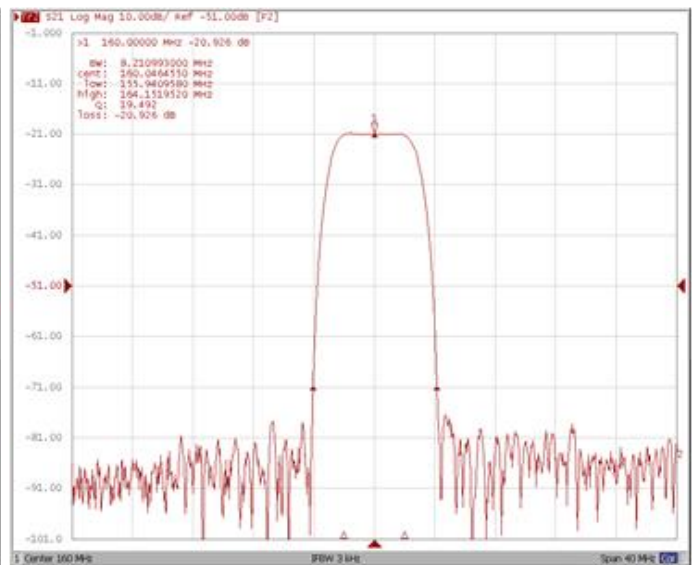
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



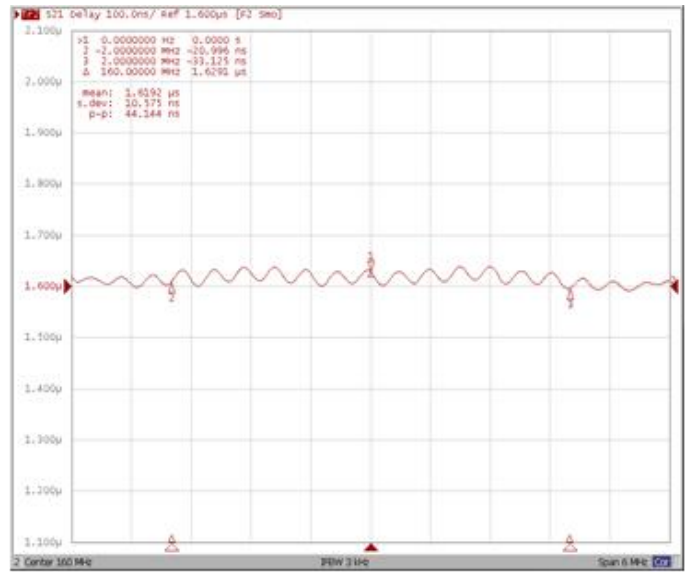
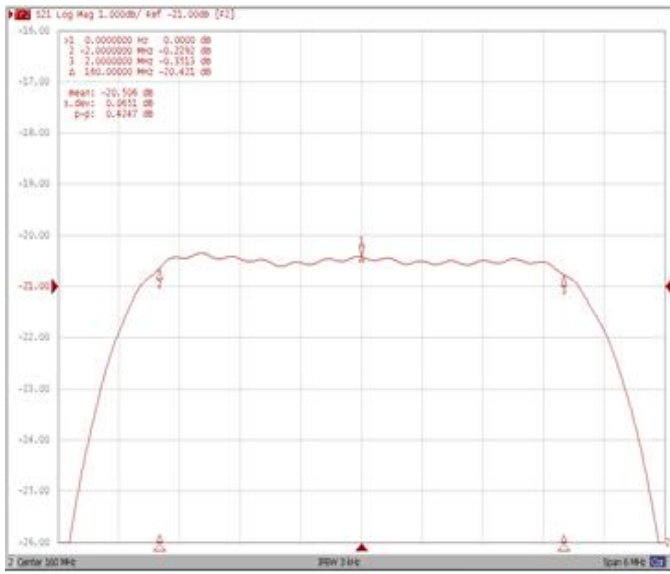
Bandwidth at -50.0 dB



Frequency Response

Ripple Variation

Group Delay Variation



Smith Chart

VSWR

