

- 160.00 MHz IF SAW Filter / 14.87 MHz Bandwidth
- Revision 0: 25 Nov. 2008

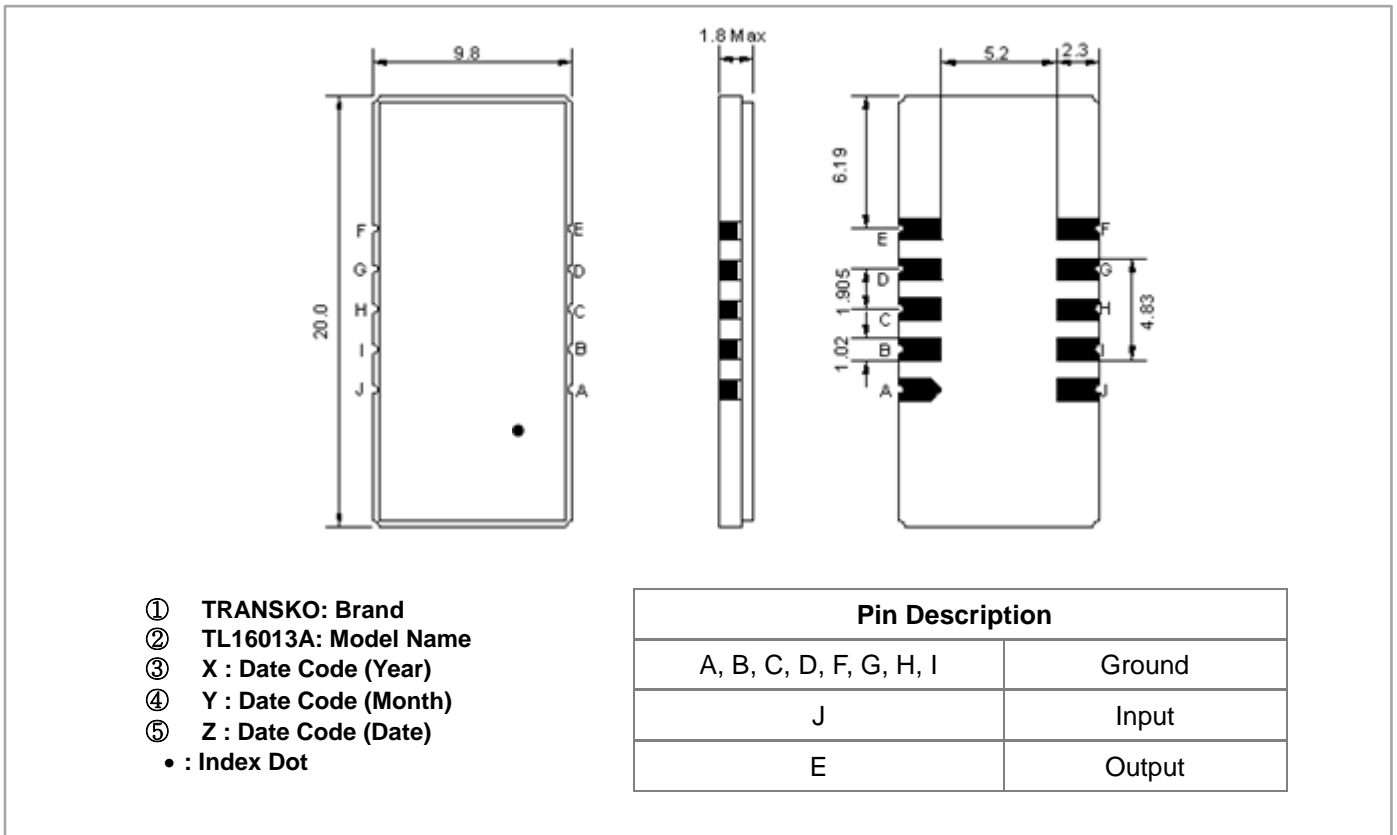
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	0	-	50
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	D1			
Length x Width	mm ²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

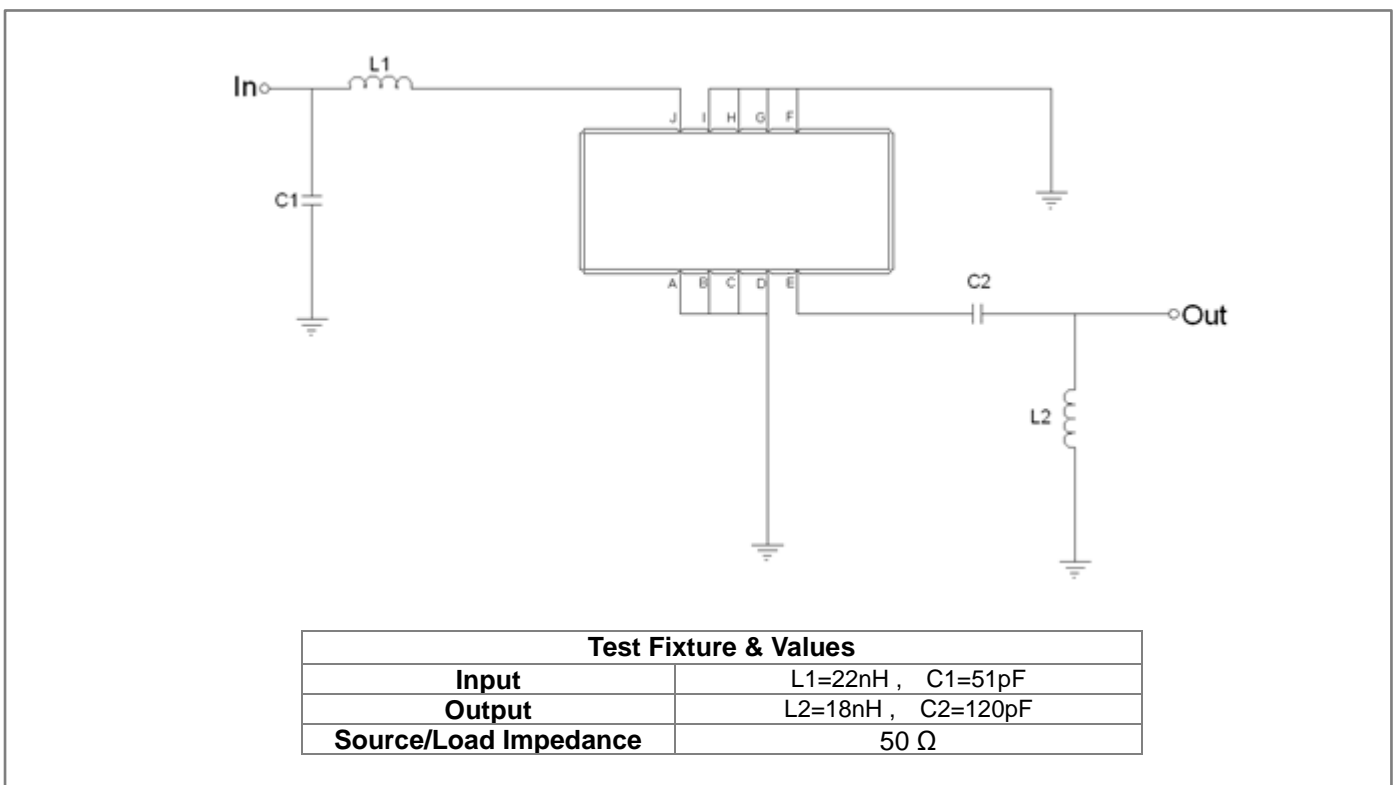
ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	160.0	-
Insertion Loss at Fo	dB	-	21.4	23.0
Group Delay Variation (Fo±6.925 MHz)	nsec	-	45	80
Absolute Delay	µsec	-	1.46	-
Passband Ripple (Fo±6.925 MHz)	dB	-	0.55	0.9
Bandwidth at -1.0 dB	MHz	13.85	14.87	-
Bandwidth at -3.0 dB	MHz	-	15.5	-
Bandwidth at -40.0 dB	MHz	-	17.7	18.2
Relative Attenuation:				
Lower Sidelobe	dB	40	45	-
Upper Sidelobe	dB	40	45	-
Temperature Coefficient	ppm/°C	-	-20	-

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



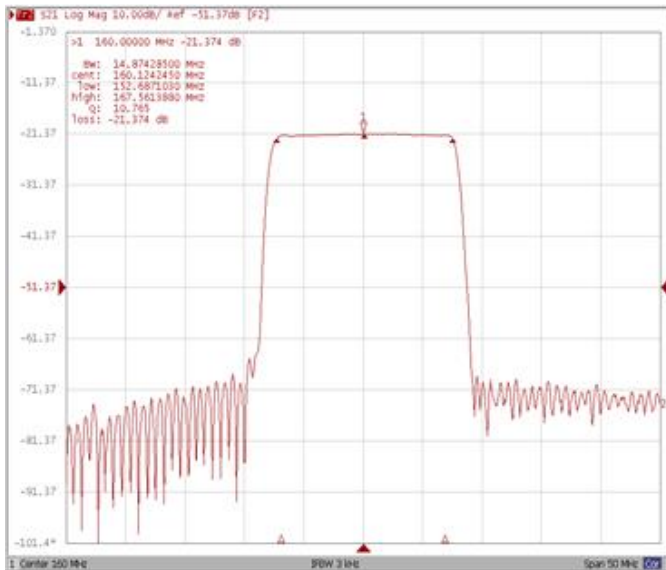
Testing Environment



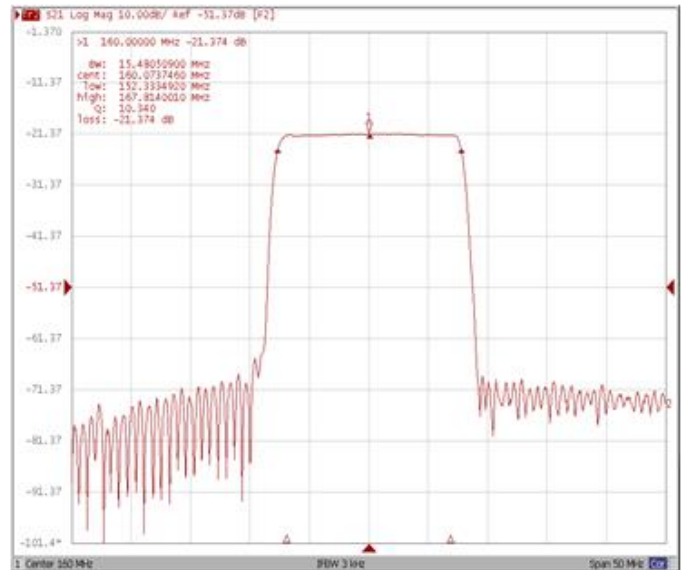
Frequency Characteristics

Frequency Response

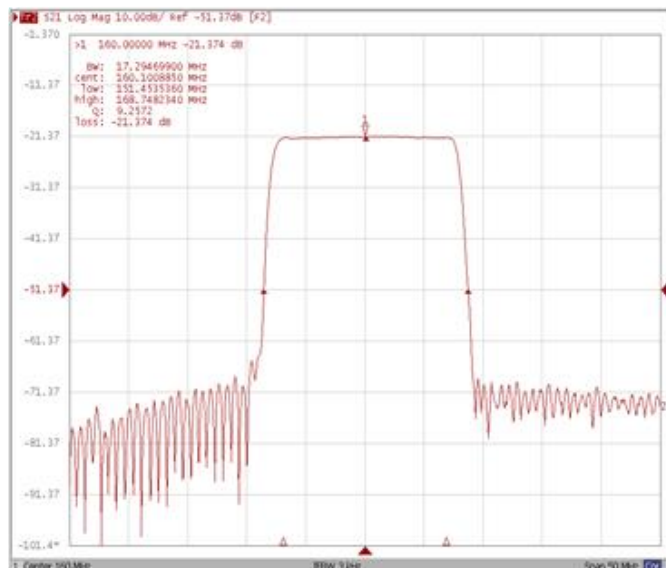
Bandwidth at -1.0 dB



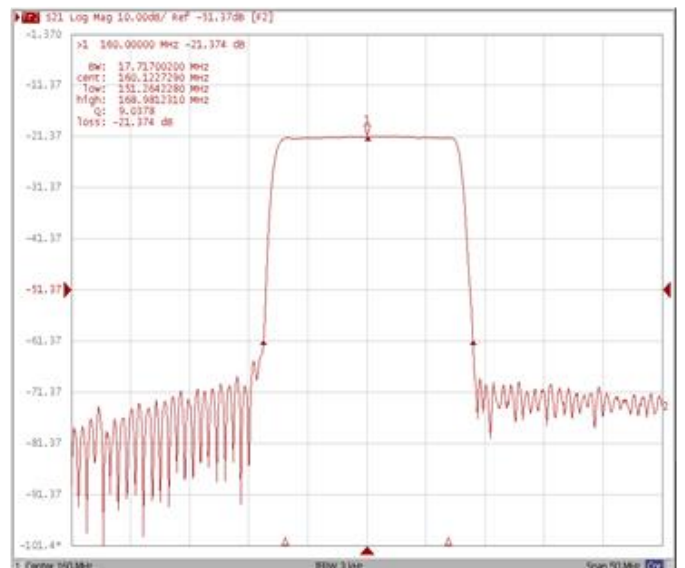
Bandwidth at -3.0 dB



Bandwidth at -30.0 dB

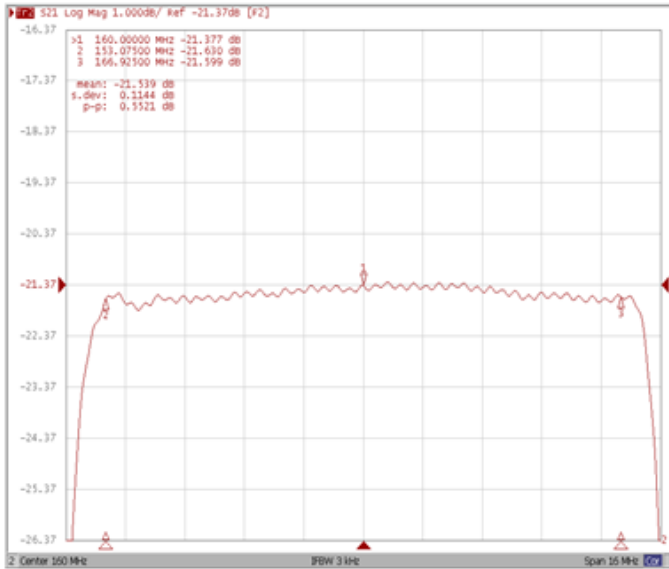


Bandwidth at -40.0 dB

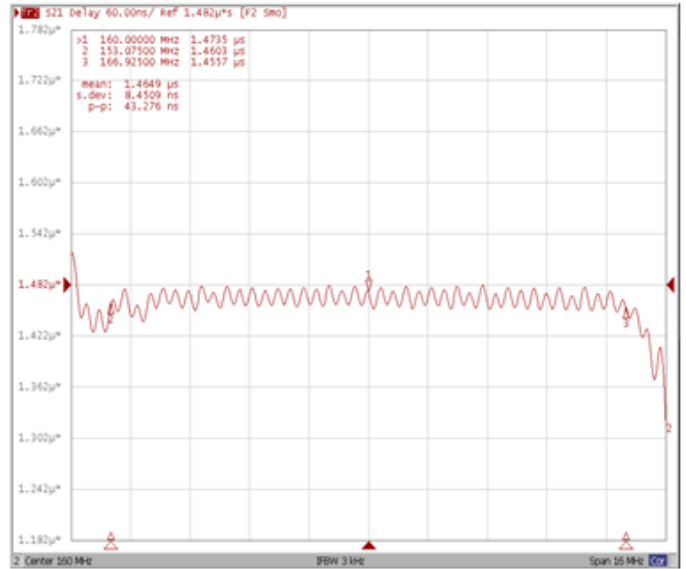


Frequency Response

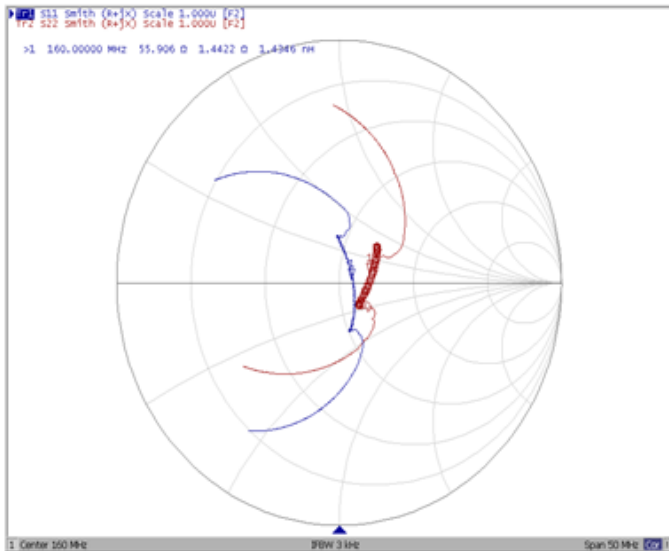
Ripple Variation Fo±6.925 MHz



Group Delay Variation Fo±6.925 MHz



Smith Chart



VSWR

