

- 71.00 MHz IF SAW Filter / 390.00 kHz Bandwidth
- Revision 0: 20 Sep. 2010

Electrical Characteristics

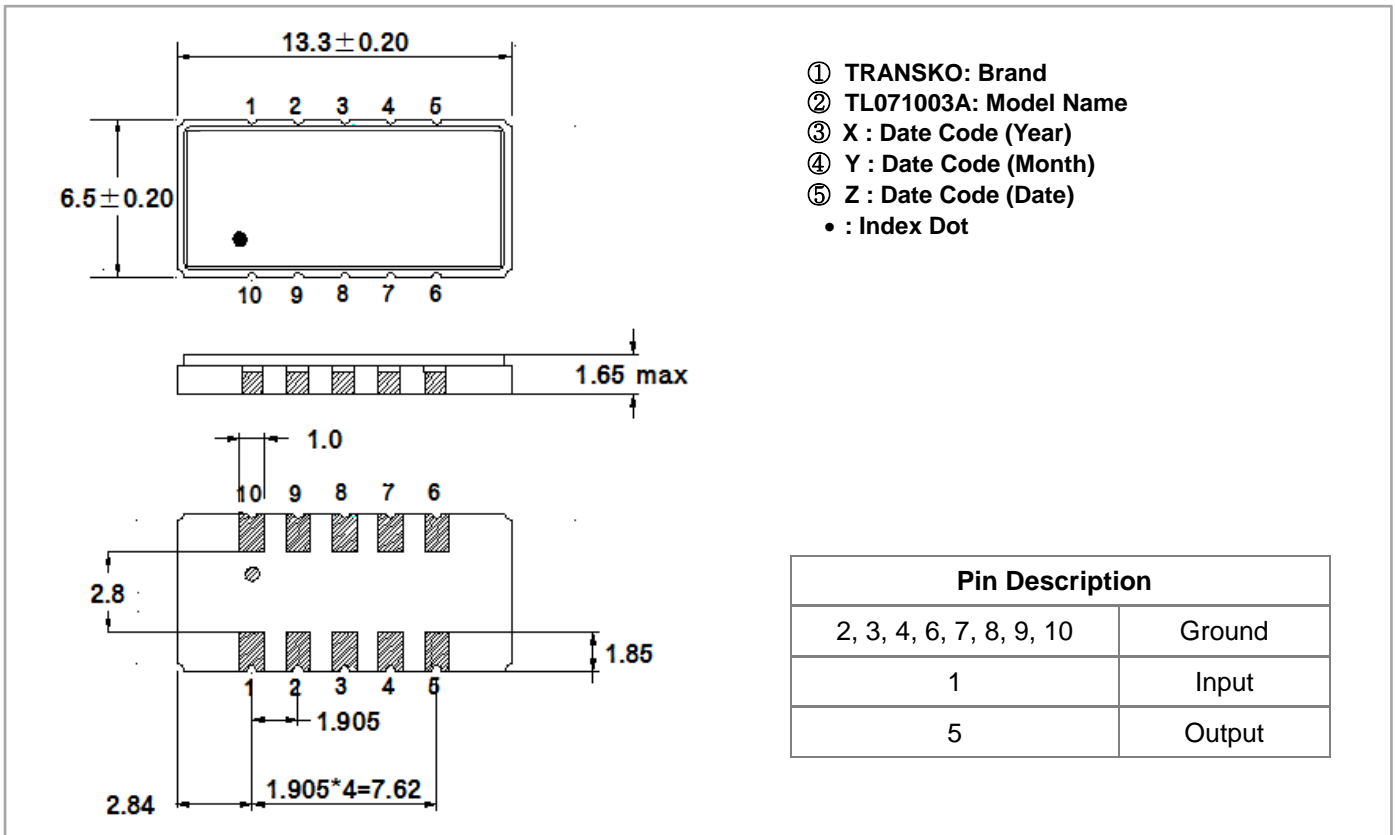
MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-40	-	85
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	0	-
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	V1			
Length x Width	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.65

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	71.00	-
Minimum Insertion Loss within Passband over temperature range	dB	-	6.9	8.5
Group Delay Variation at Fo ± 125 KHz	nsec	-	560	1500
Absolute Delay at Fo	usec	-	2.34	-
Passband Ripple Variation at Fo ± 125 KHz	dB	-	1.00	2.00
Bandwidth at -2dB	MHz	0.18	0.39	-
Bandwidth at -3dB	MHz	0.22	0.41	-
Bandwidth at -5dB	MHz	-	0.44	0.54
Bandwidth at -20dB	MHz	-	0.62	0.75
Bandwidth at -30dB	MHz	-	0.80	1.00
Bandwidth at -35dB	MHz	-	0.92	1.4
Ultimate Rejection				
Fo ± 300 KHz ~ Fo ± 500 KHz	dB	15	18	-
Fo ± 500 KHz ~ Fo ± 700 KHz	dB	30	34	-
Fo ± 700 KHz ~ Fo ± 3 MHz	dB	35	39	-
Fo ± 800 KHz	dB	41	46	-
Fo ± 3 MHz ~ Fo ± 35 MHz	dB	43	50	-
Temperature Coefficient	ppm/°C	-	-0.036	-

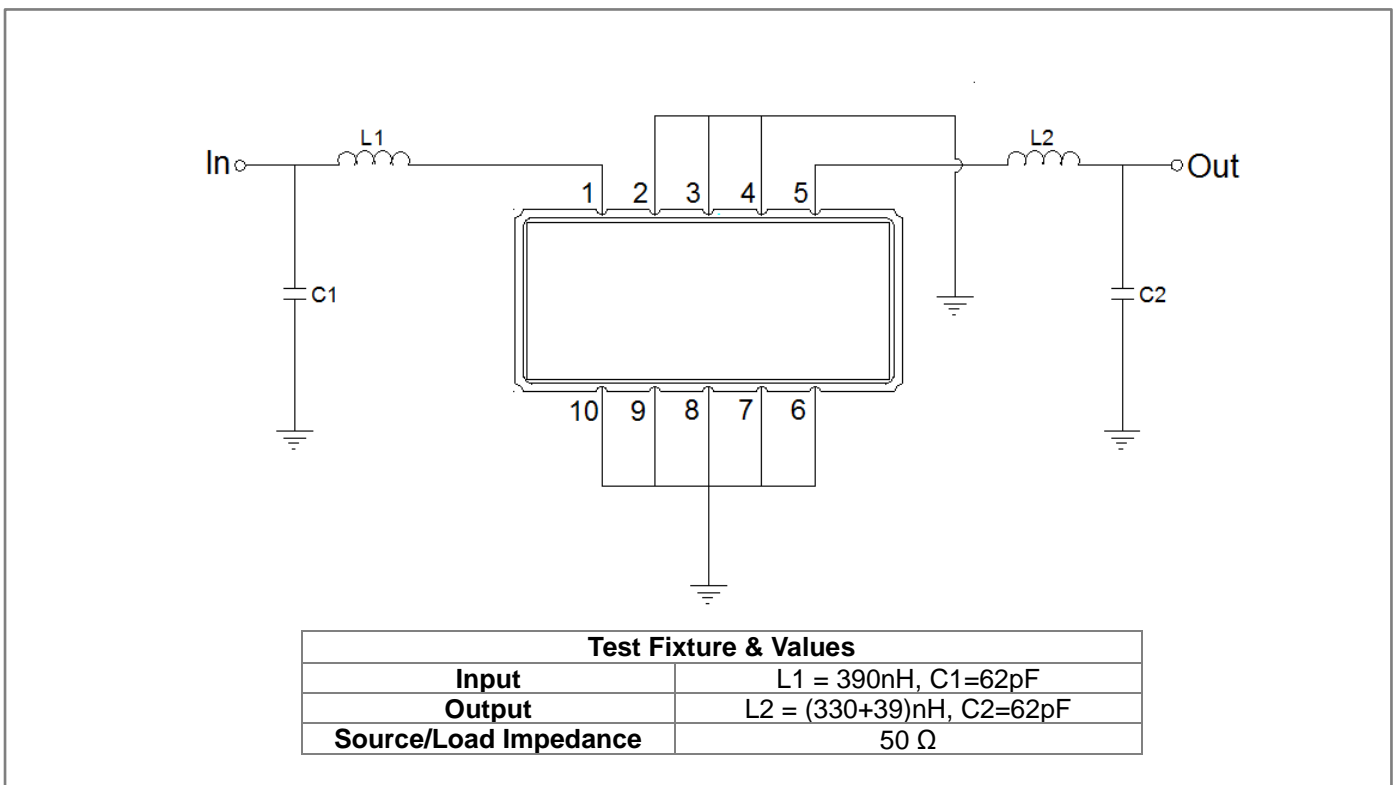
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).

Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



Testing Environment

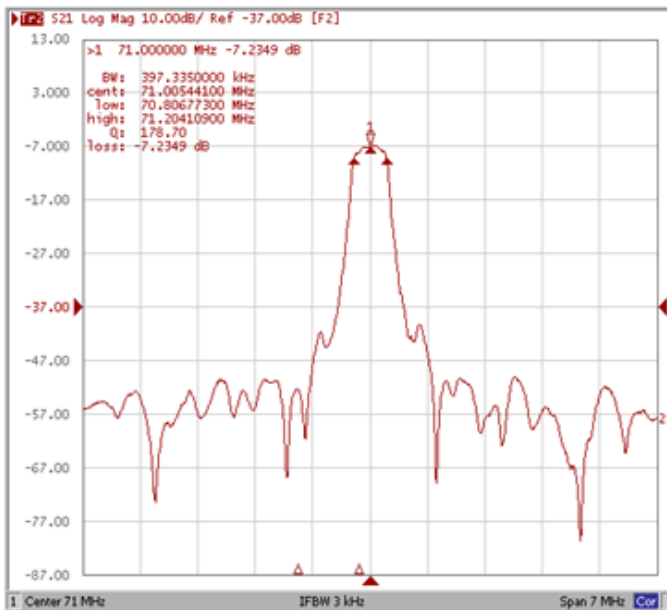


Frequency Characteristics

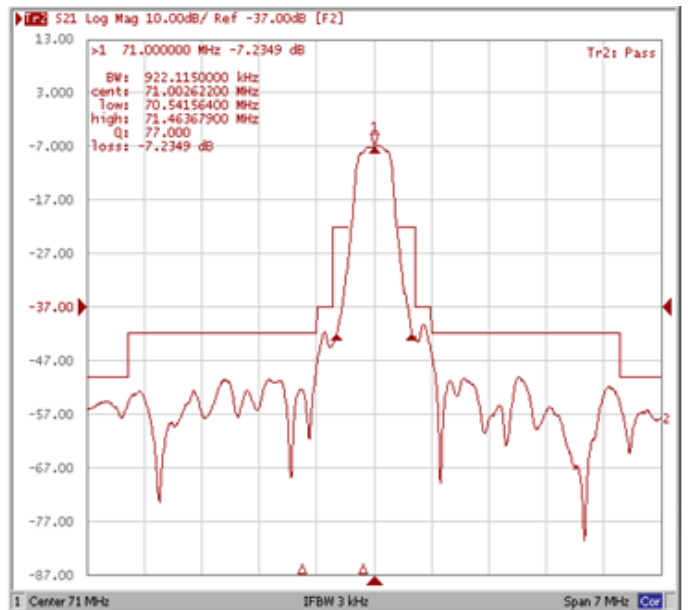
Frequency Response

Operating Temperature : +25 °C

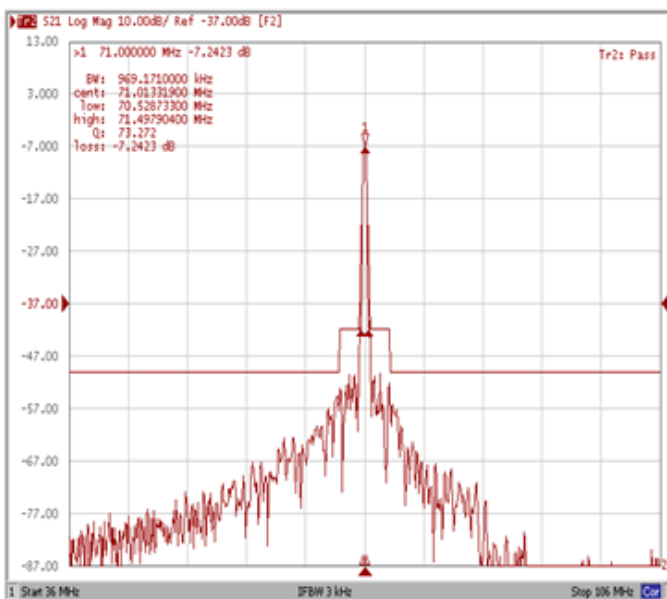
Bandwidth at -2.0 dB



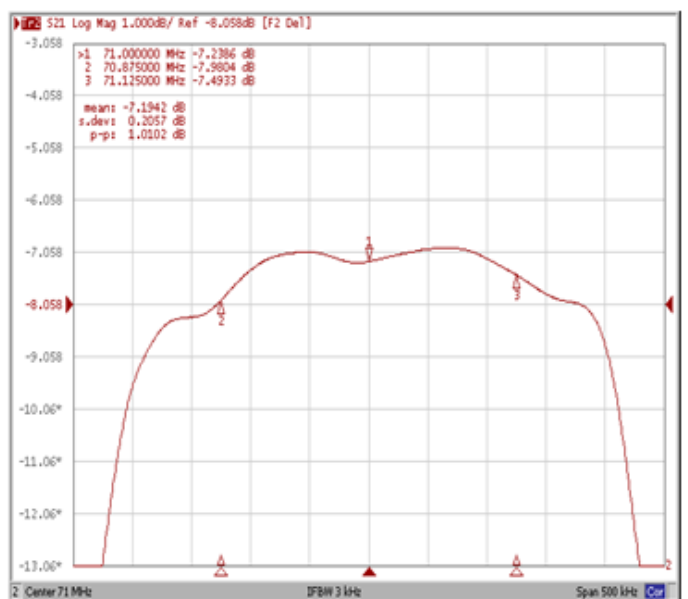
Bandwidth at -35.0 dB



Wide Band

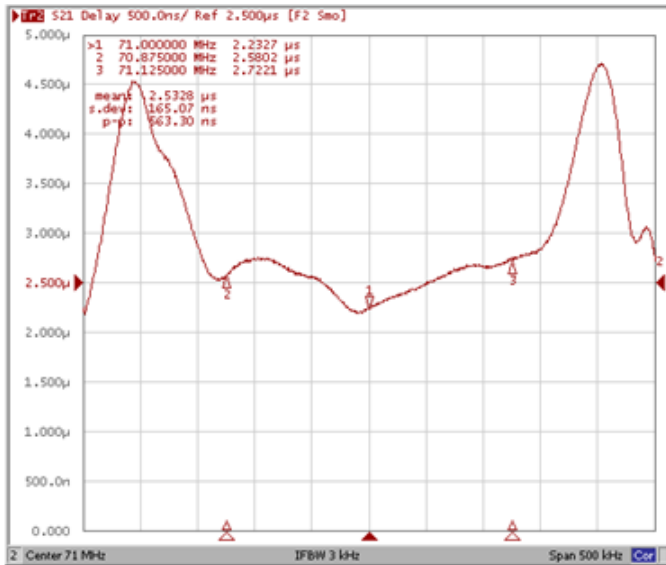


Ripple Variation Fo±125KHz

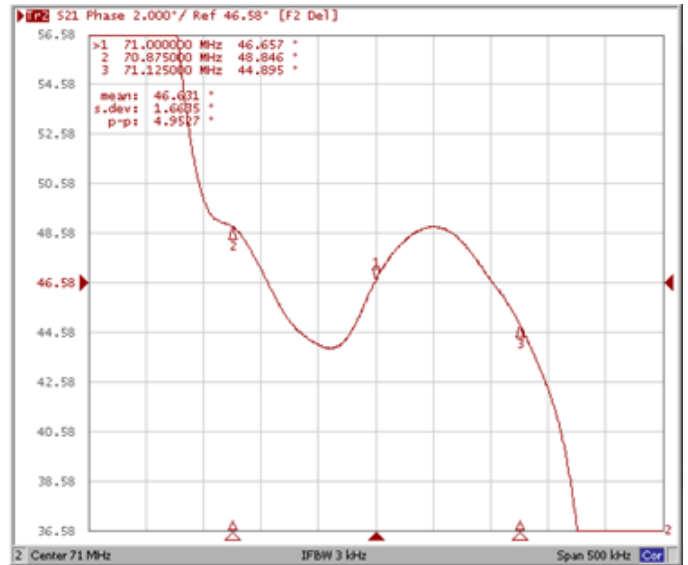


Frequency Response

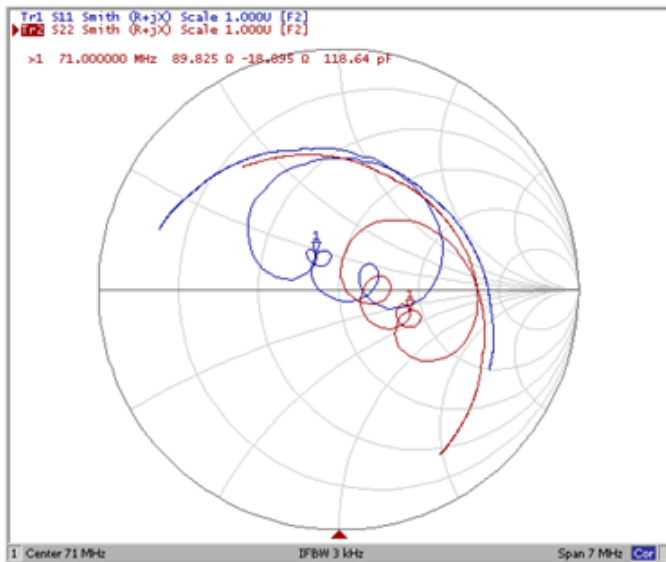
Group Delay Variation Fo±125KHz



Phase Linearity Fo±125KHz



Smith Chart



VSWR

