

- 71.00 MHz IF SAW Filter / 61.00 kHz Bandwidth
- Revision 0: 29 Nov. 2011

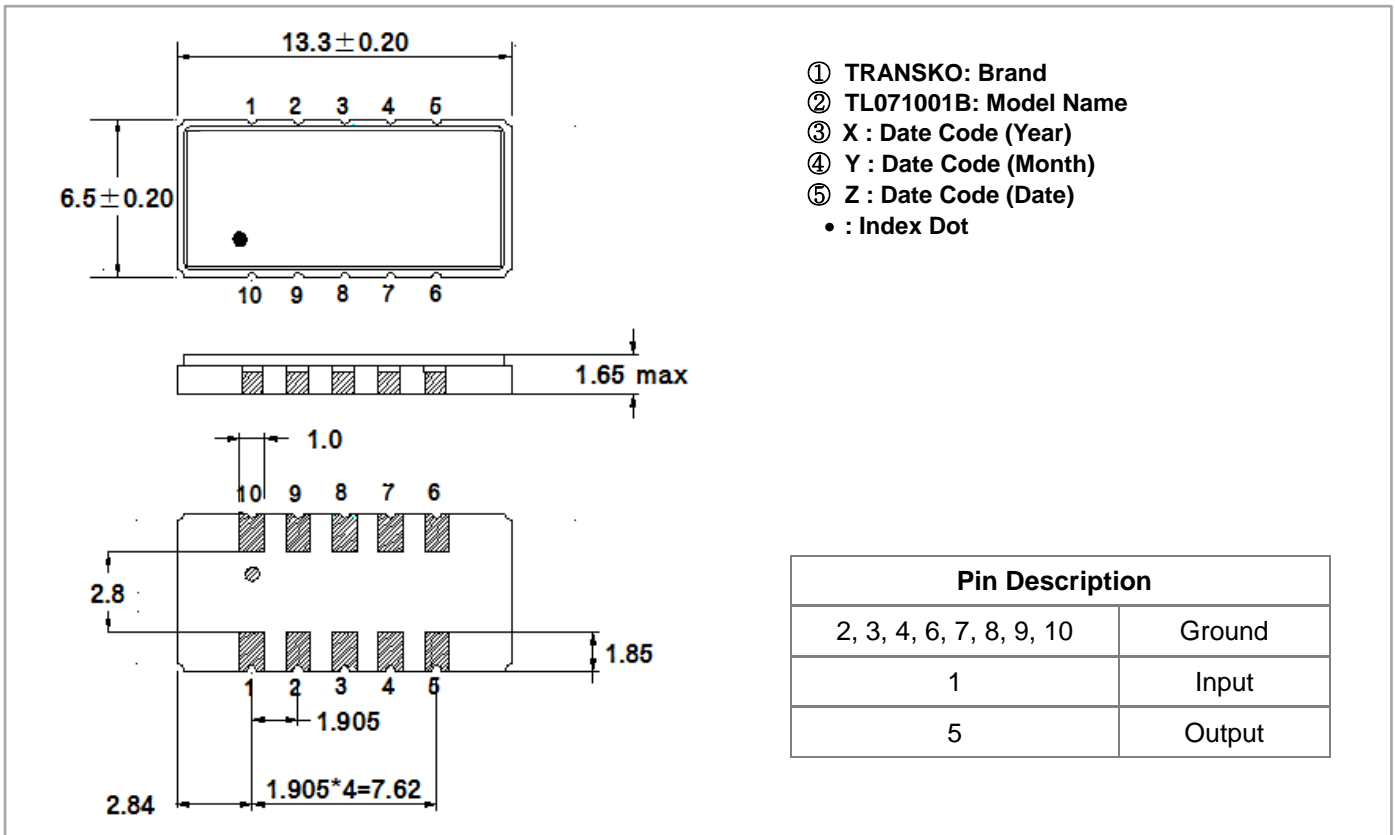
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-20	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	-
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

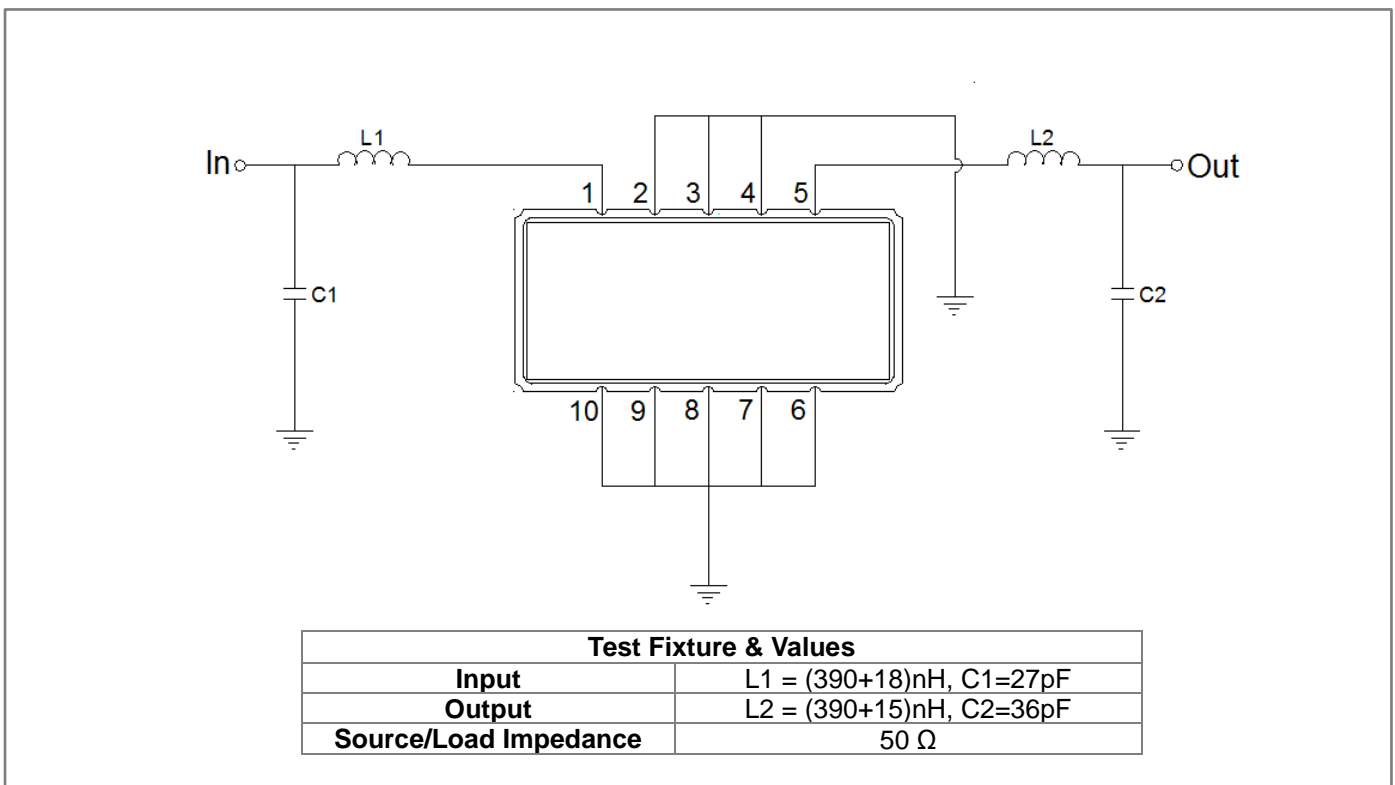
ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	71.00	-
Insertion Loss at Fo	dB	-	7.4	9.0
Group Delay Variation at Fo ± 25 KHz	nsec	-	512	1500
Absolute Delay at Fo	usec	-	4.14	-
Passband Ripple Variation at Fo ± 25 KHz	dB	-	0.84	1.5
Bandwidth at -1dB	MHz	-	0.061	-
Bandwidth at -2dB	MHz	-	0.089	-
Bandwidth at -3dB	MHz	-	0.109	-
Bandwidth at -7dB	MHz	-	0.170	-
Bandwidth at -35dB	MHz	-	0.663	-
Center Frequency (Fo)	MHz	-	71.00	-
Ultimate Rejection				
Fo ± 300 KHz ~ Fo ± 500 KHz	dB	15	30	-
Fo ± 500 KHz ~ Fo ± 700 KHz	dB	27	30	-
Fo ± 700 KHz ~ Fo ± 3 MHz	dB	35	38	-
Fo ± 800 KHz	dB	37	46	-
Fo ± 3 MHz ~ Fo ± 35 MHz	dB	42	47	-
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

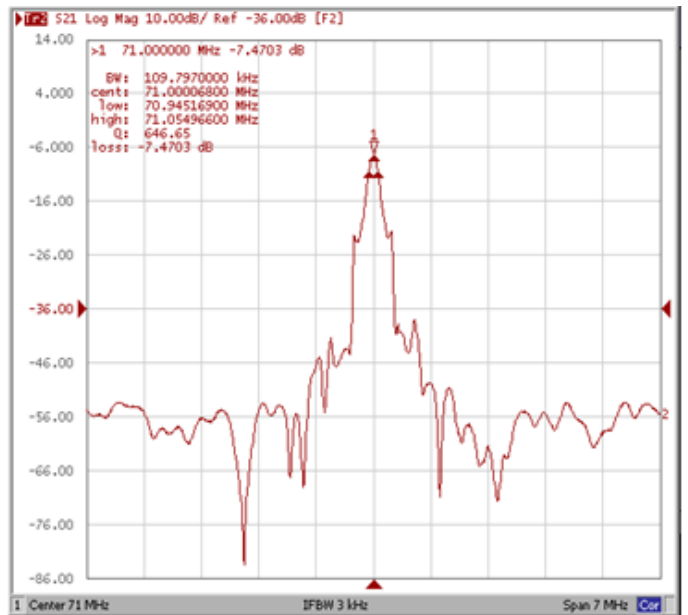
Frequency Response

Operating Temperature : +25 °C

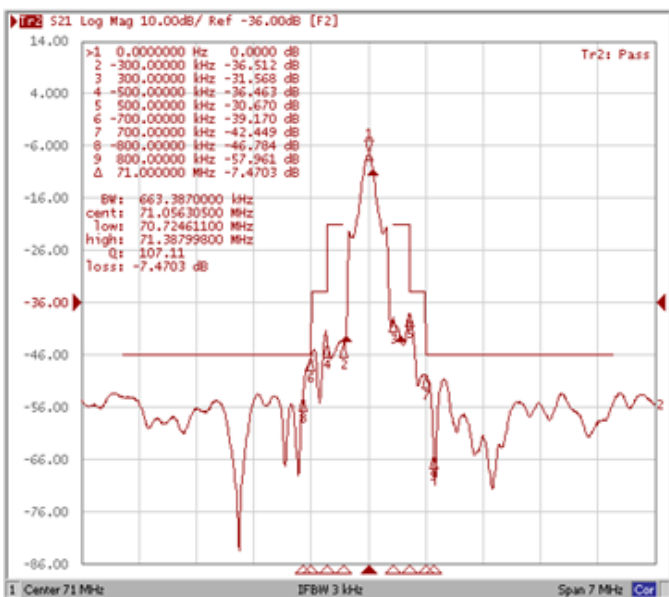
Bandwidth at -1.0 dB



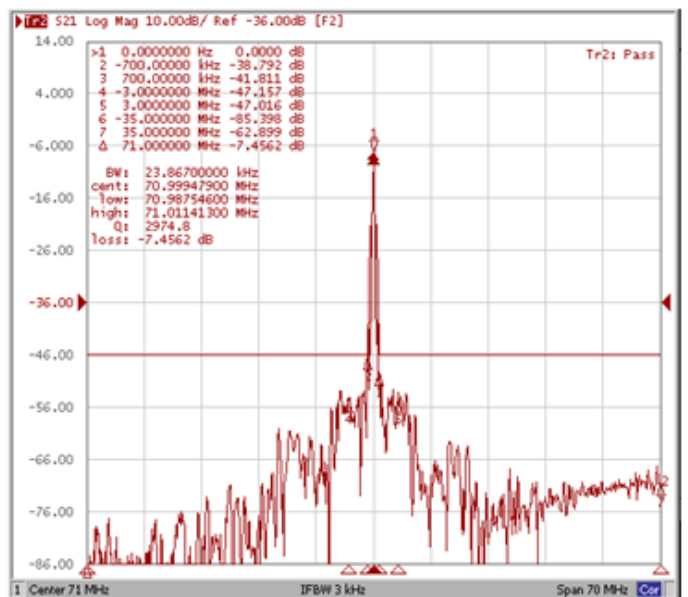
Bandwidth at -3.0 dB



Bandwidth at -35.0 dB



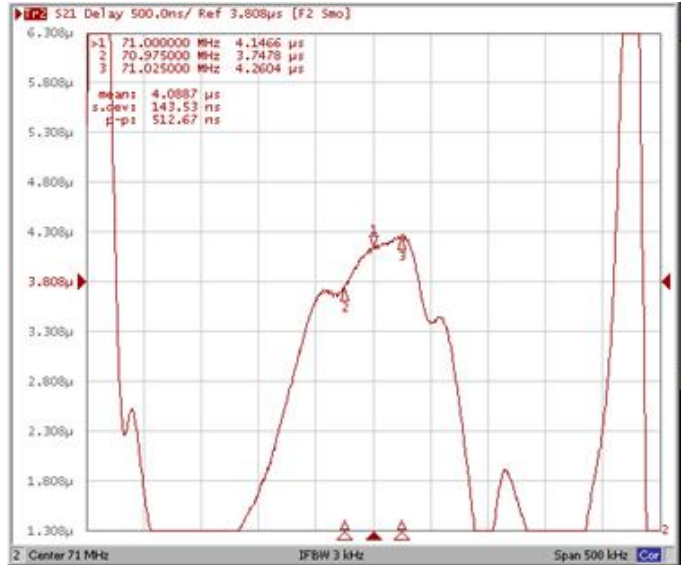
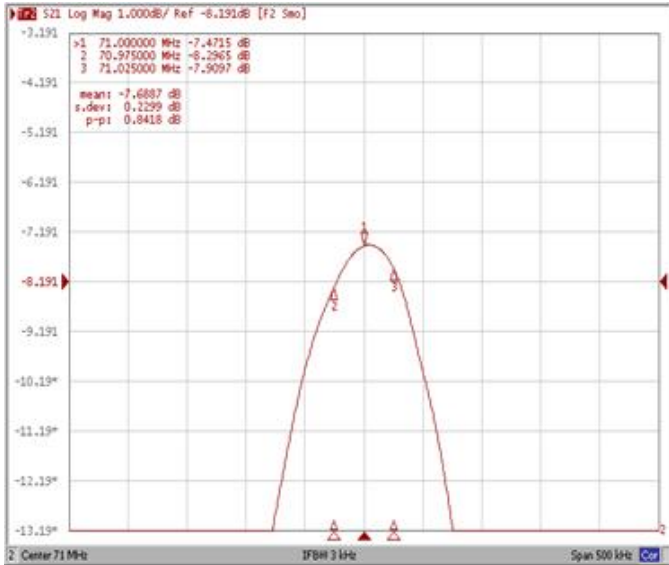
Wide-Band



Frequency Response

Ripple Variation Fo±25KHz

Group Delay Variation Fo±25KHz



Smith Chart

VSWR

