Transko

TL07020BD1

RoHS Compliant

- **70.00 MHz IF SAW Filter / 20.05 MHz Bandwidth**
- **Revision 0: 14 Jun. 2008**

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operating Temperature Range	°C	0	-	60
Storage Temperature Range	°C	-30	-	80
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	mm²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	69.90	70.00	70.10
Insertion Loss at Fo	dB	-	18.75	20.0
Group Delay Variation (Fo±9.65MHz)	ns	-	70	150
Absolute Delay	us	-	1.64	-
Passband Ripple (Fo±9.65MHz)	dB	-	0.80	1.00
Bandwidth at -1dB	MHz	19.80	20.05	-
Bandwidth at -3dB	MHz	-	20.50	-
Bandwidth at -20dB	MHz	-	21.75	-
Bandwidth at -40dB	MHz	-	22.70	22.95
Ultimate Rejection	dB	-	48	-
Temperature coefficient	ppm/°C	-	-86	-

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.

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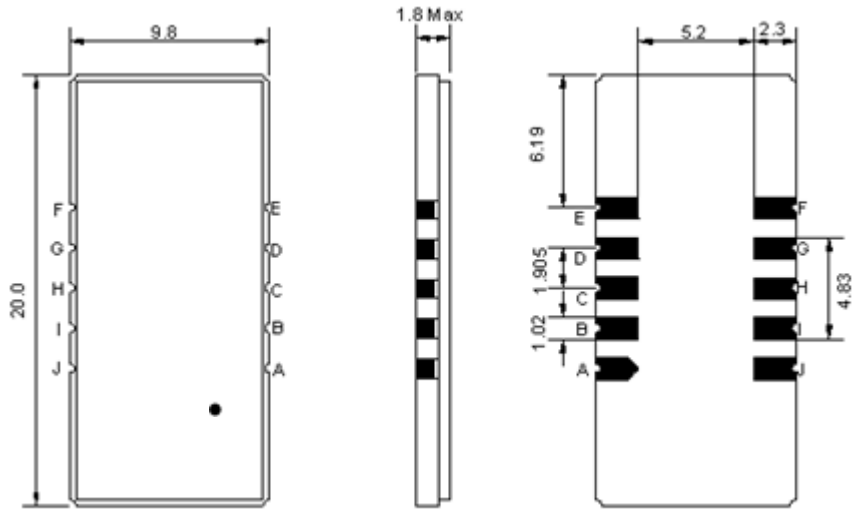
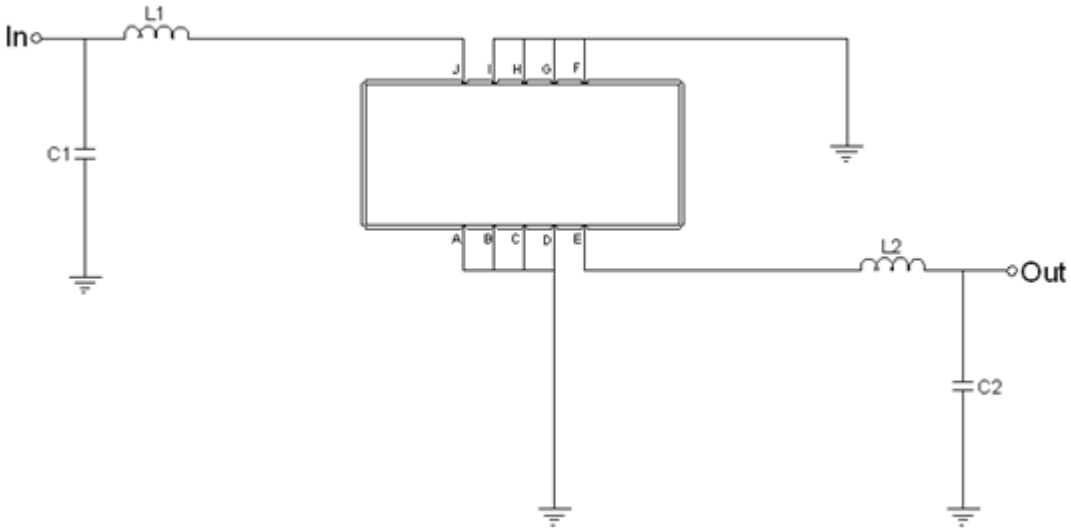
Package Dimensions



① **TRANSKO: Brand**
② **TL07020B: 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	Ground
J	Input
E	Output

Testing Environment

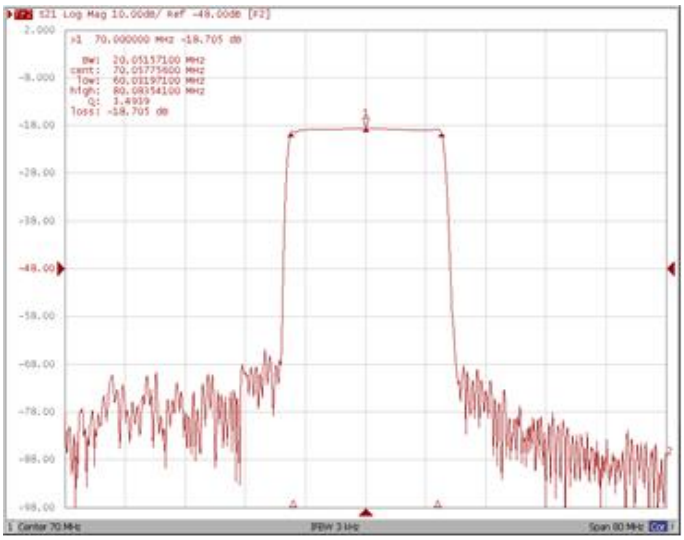


Test Fixture & Values	
Input	L1=68nH, C1=91pF
Output	L2=82nH, C2=75pF
Source/Load Impedance	50 Ω

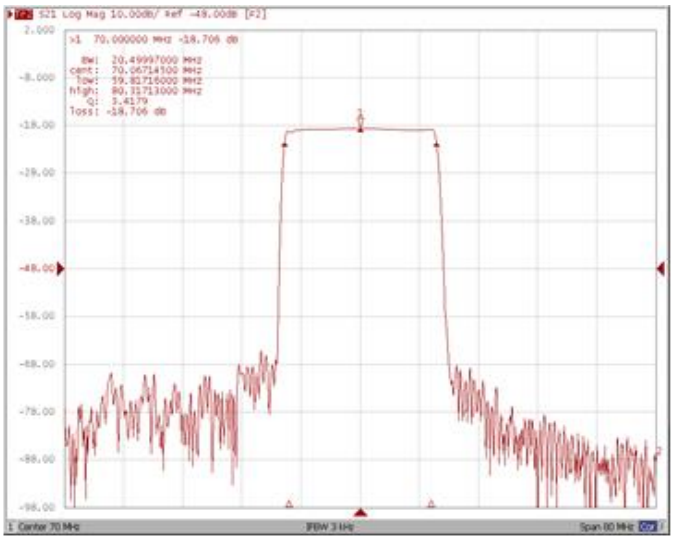
Frequency Characteristics

Frequency Response

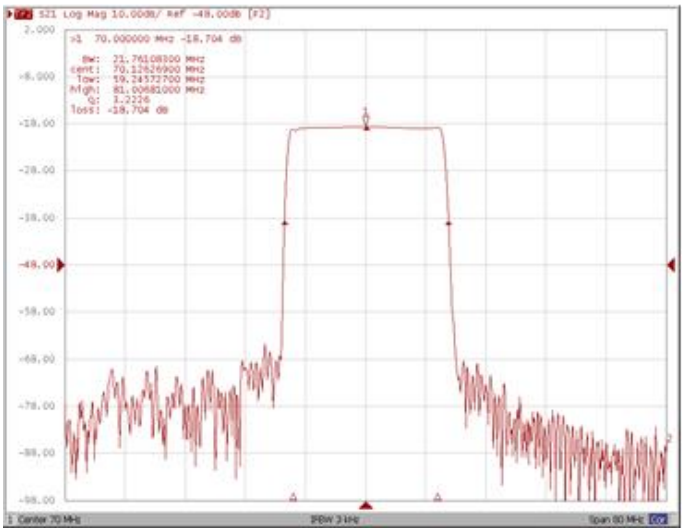
Bandwidth at –1.0 dB



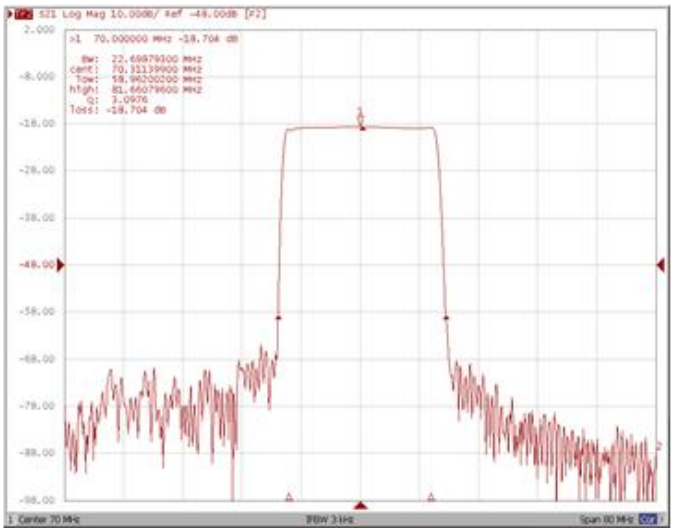
Bandwidth at –3.0 dB



Bandwidth at –20.0 dB

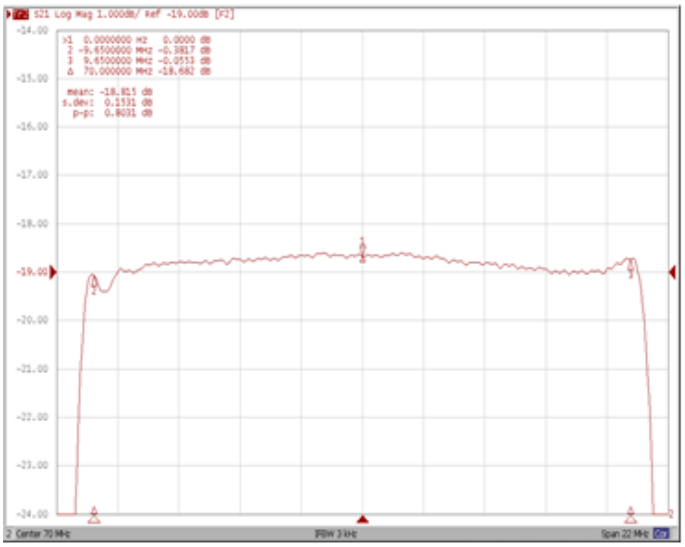


Bandwidth at –40.0 dB

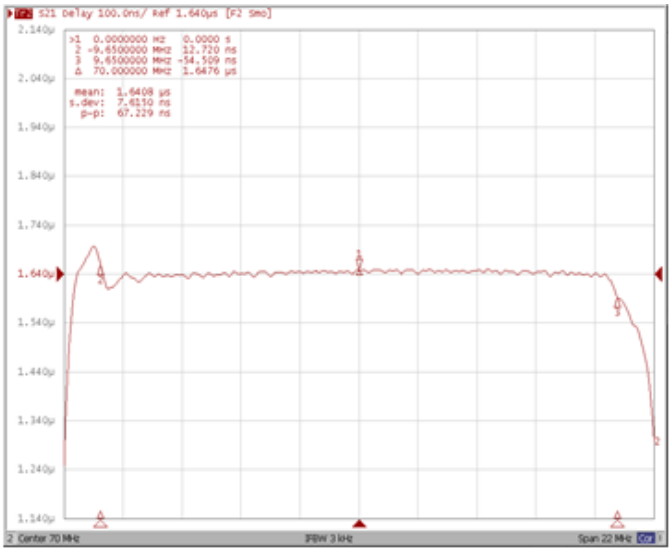


Frequency Response

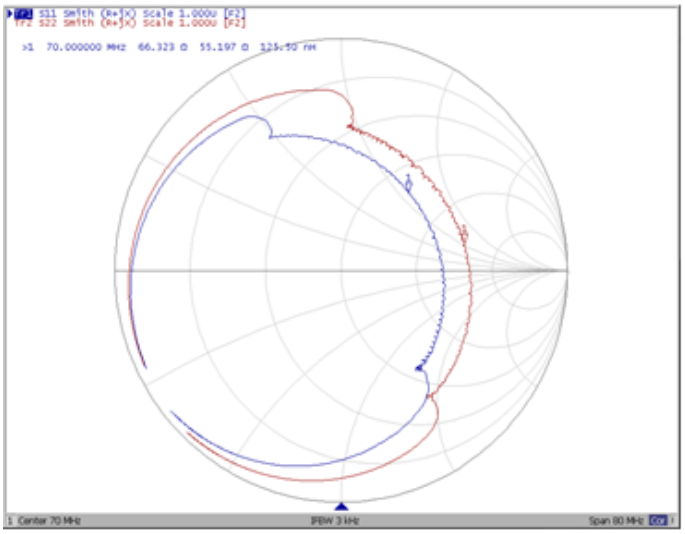
Ripple Variation Fo±9.65MHz



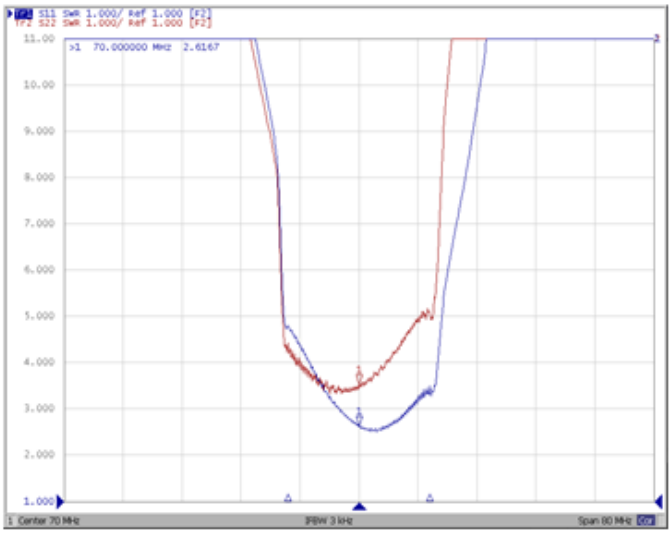
Group Delay Variation Fo±9.65MHz



Smith Chart



VSWR



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