

- 75.0 MHz IF SAW Filter / 30.10 MHz Bandwidth
- Revision 0: 10. Mar. 2009

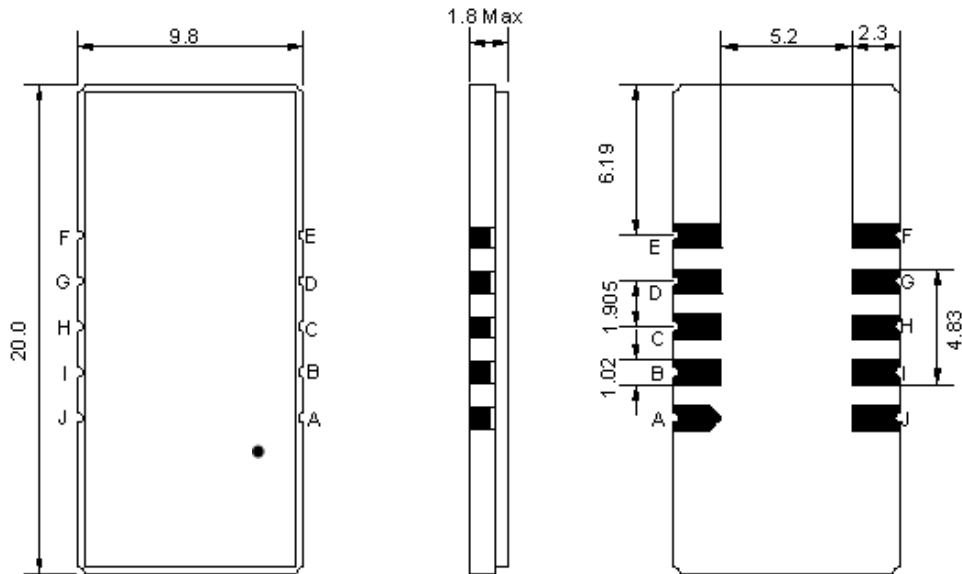
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-10	-	70
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	-	75.0	-
Insertion Loss at Fo	dB	-	28.0	29.5
Group Delay Variation (Fo±14.52MHz)	ns	-	25	60
Absolute Delay Time at Fo	us	-	2.36	-
Temperature Coefficient	ppm/°C	-	-72	-
Amplitude Ripple (Fo±14.52MHz)	dB	-	0.5	1.0
Bandwidth at -1dB	MHz	29.90	30.10	-
Bandwidth at -3dB	MHz	-	30.43	-
Bandwidth at -40dB	MHz	-	31.84	31.95
Bandwidth at -50dB	MHz	-	31.98	-
Ultimate Rejection	dB	50	54	-

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.

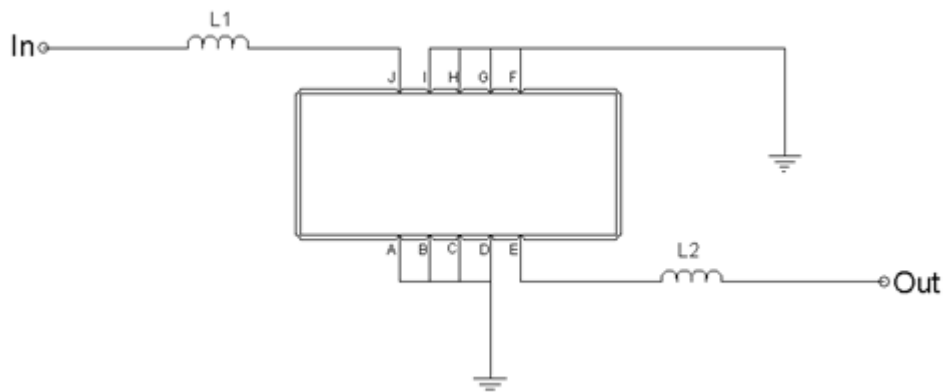
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA07530B:** 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



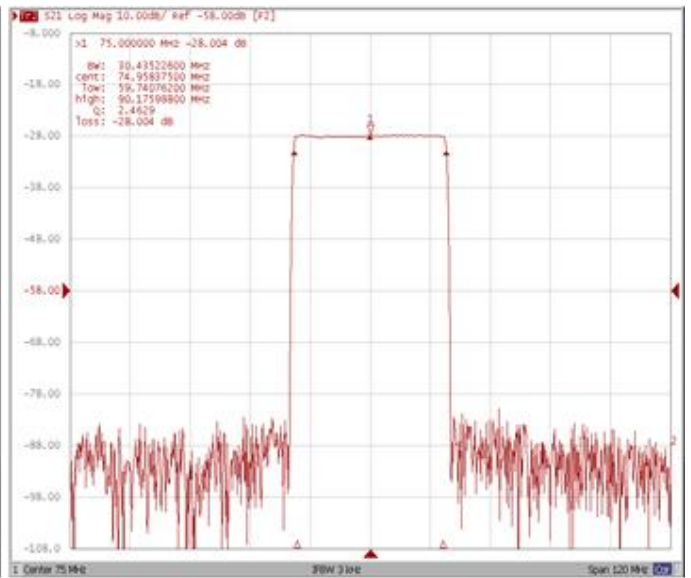
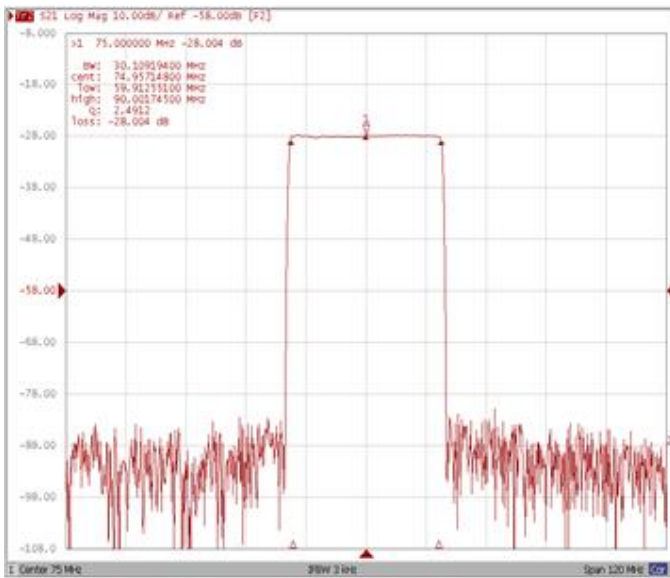
Test Fixture & Values	
Input	L1=120nH
Output	L2=150nH
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

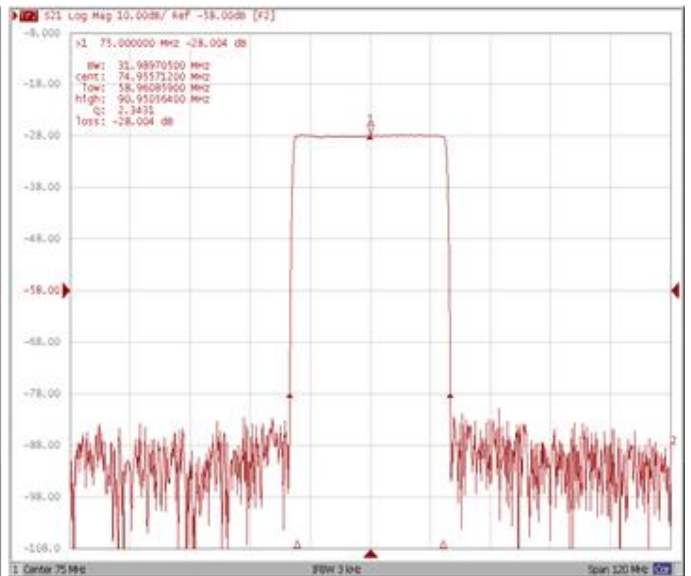
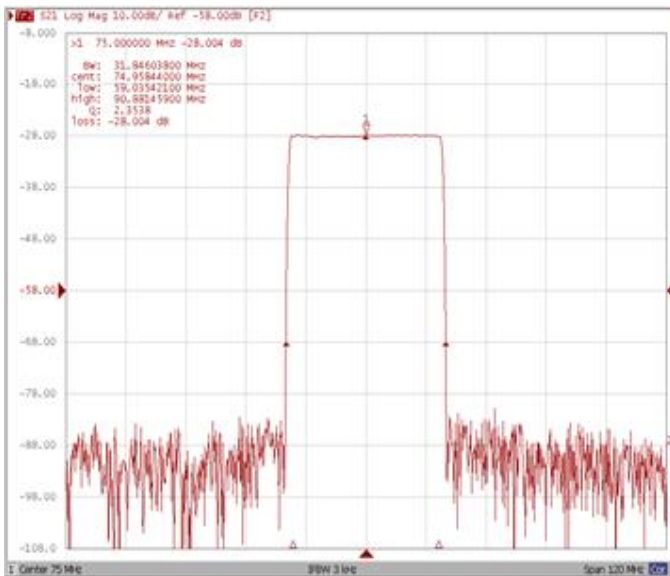
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



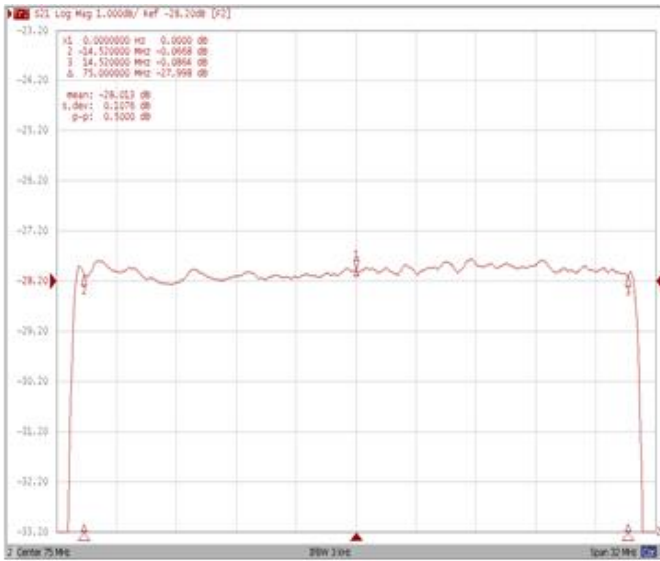
Bandwidth at -40.0 dB

Bandwidth at -50.0 dB

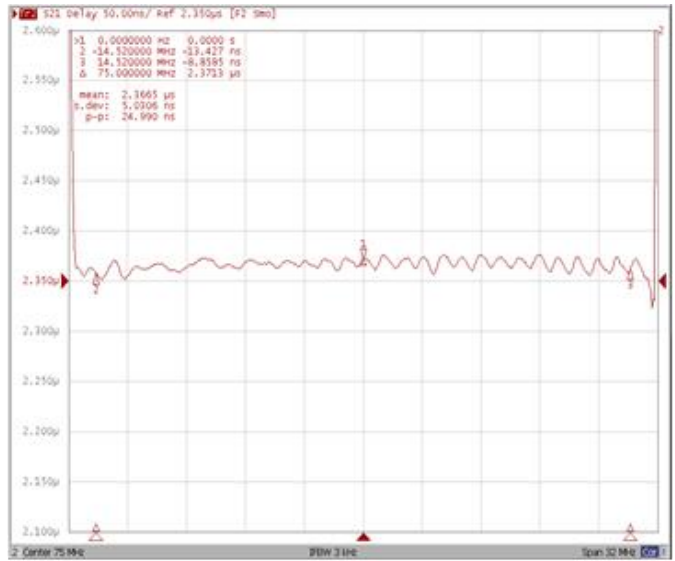


Frequency Response

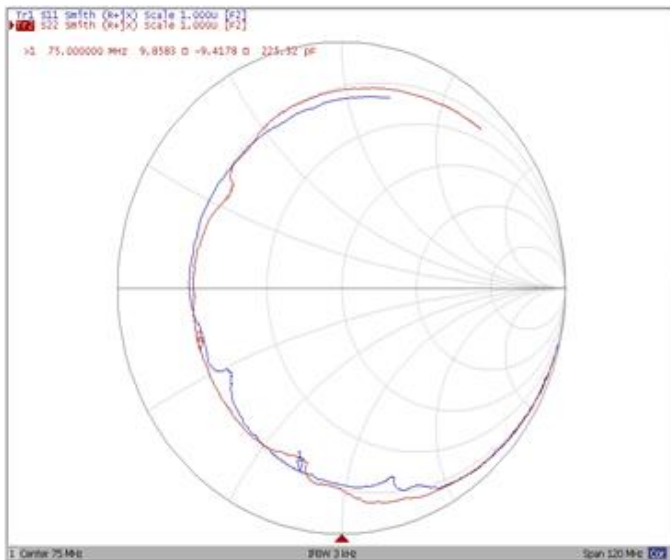
Ripple Variation Fo±14.52MHz



Group Delay Variation Fo±14.52MHz



Smith Chart



VSWR

