

- 90.00 MHz IF SAW Filter / 23.73 MHz Bandwidth
- Revision 0: 10 Nov. 2010

Electrical Characteristics

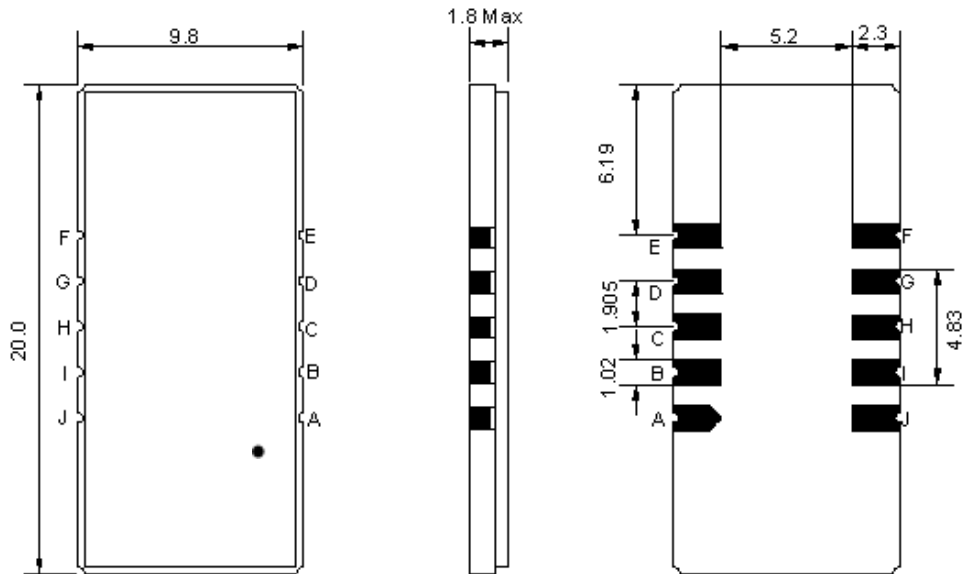
MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-	+25	-
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	D1			
Length x Width	mm ²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

* Room Temperature : +25°C

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	90.00	-
Insertion Loss at Fo	dB	-	22.70	25.00
Group Delay Variation (Fo±11.50MHz)	nsec	-	36	80
Absolute Delay at Fo	usec	-	2.35	2.50
Passband Ripple Variation(Fo±11.50MHz)	dB	-	0.55	1.00
Bandwidth at -1dB	MHz	23.50	23.73	-
Bandwidth at -20dB	MHz	-	25.02	25.15
Bandwidth at -35dB	MHz	-	25.37	25.50
Bandwidth at -40dB	MHz	-	25.45	25.60
Bandwidth at -50dB	MHz	-	25.55	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient	ppm/°C	-	-72	-

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.

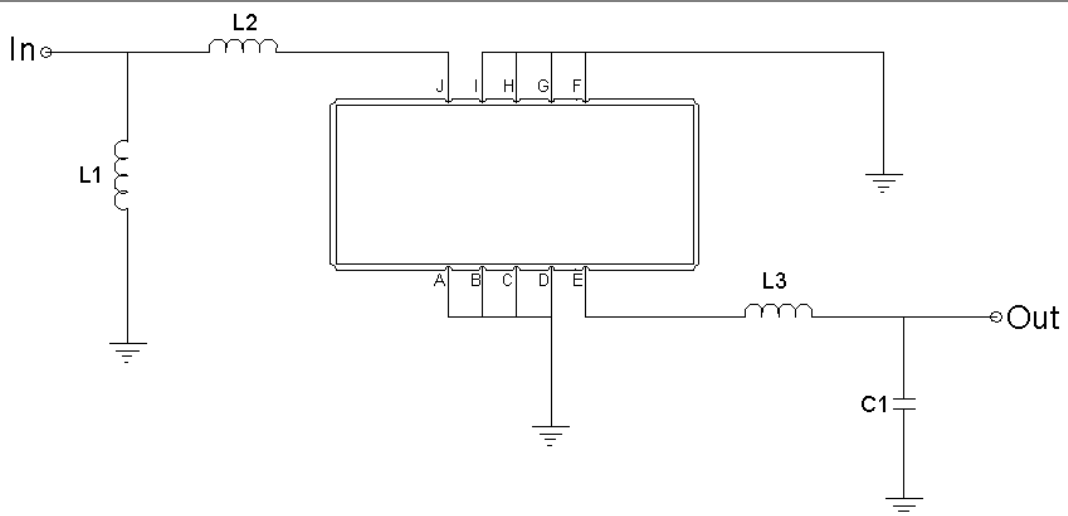
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA09023A:** 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 = 82 nH, L2 = 39 nH
Output	L3 = 150 nH, C1 = 9 pF
Source/Load Impedance	50 Ω

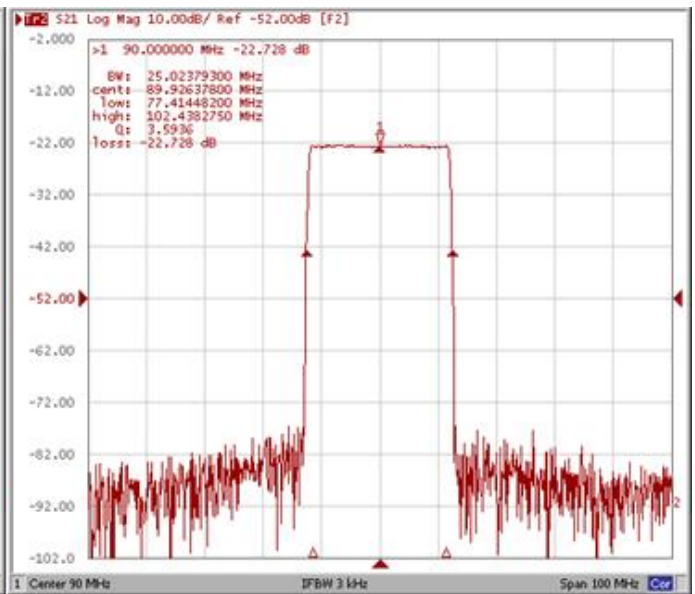
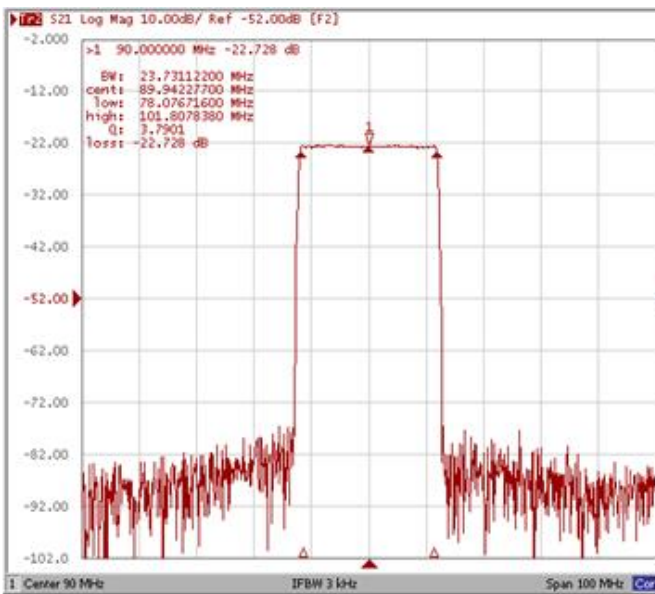
Frequency Characteristics

Frequency Response

Room Temperature : +25°C

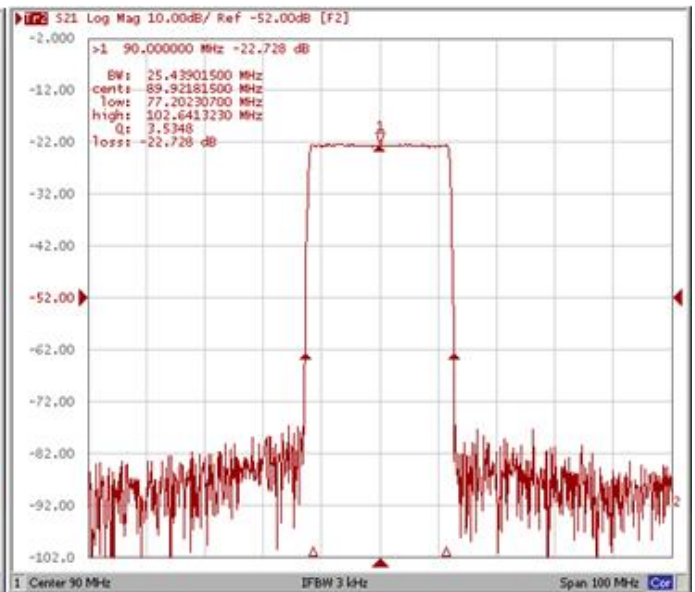
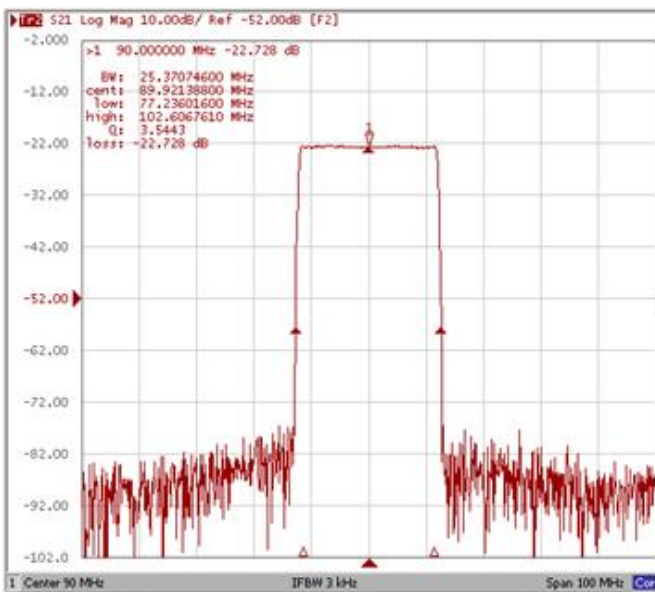
Bandwidth at -1.0 dB

Bandwidth at -20.0 dB



Bandwidth at -35.0 dB

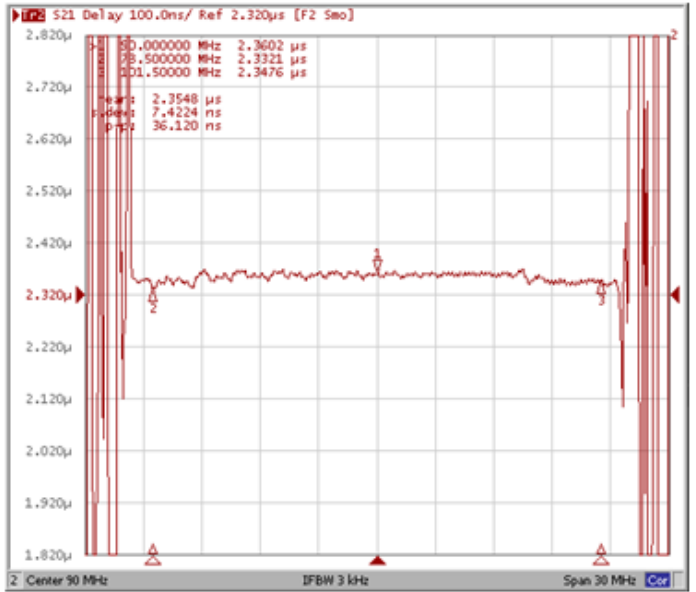
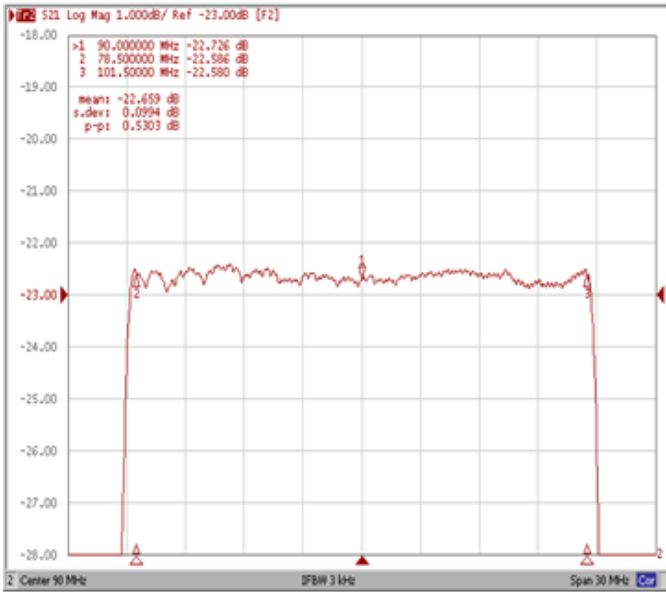
Bandwidth at -40.0 dB



Frequency Response

Ripple Variation Fo±11.50MHz

Group Delay Variation Fo±11.50MHz



Smith Chart

VSWR

