

- 90.00 MHz IF SAW Filter / 24.62 MHz Bandwidth
- Revision 0: 10. Nov. 2010

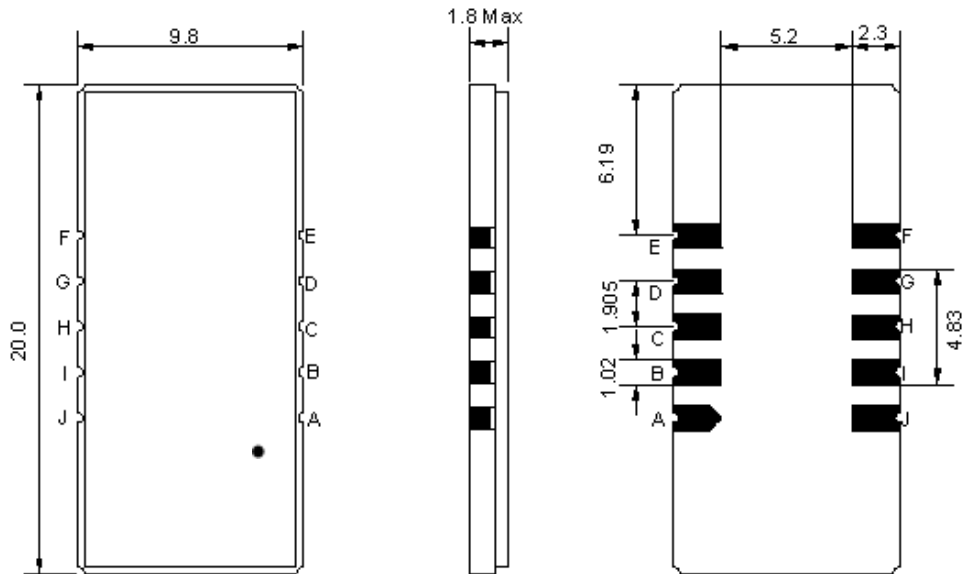
Electrical Characteristics

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

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	90.00	-
Insertion Loss at Fo	dB	-	22.80	25.00
Group Delay Variation (Fo±11.90MHz)	nsec	-	38	80
Absolute Delay at Fo	usec	-	2.35	2.50
Passband Ripple Variation(Fo±11.90MHz)	dB	-	0.60	1.00
Bandwidth at -1dB	MHz	24.40	24.62	-
Bandwidth at -20dB	MHz	-	25.95	26.10
Bandwidth at -35dB	MHz	-	26.33	26.50
Bandwidth at -40dB	MHz	-	26.43	26.60
Bandwidth at -50dB	MHz	-	26.62	-
Ultimate Rejection	dB	50	53	-
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.

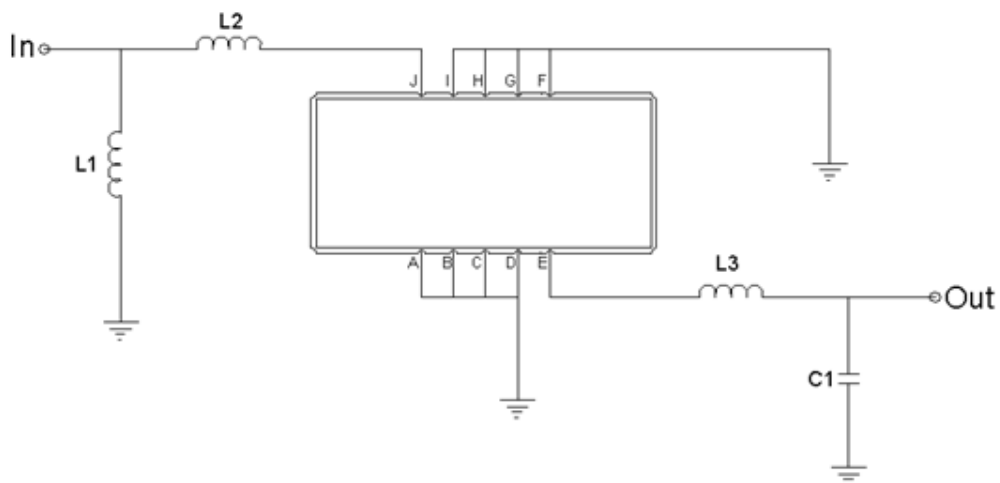
Package Dimensions



- ① TRANSKO: Brand
- ② TA09024A: 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

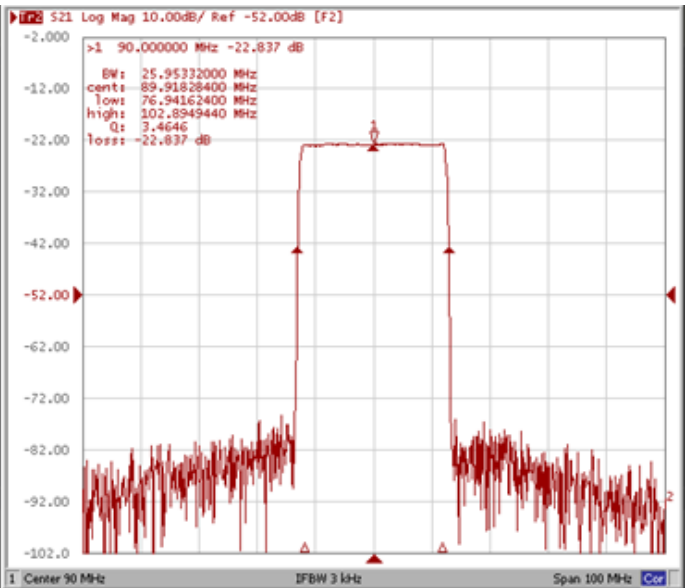
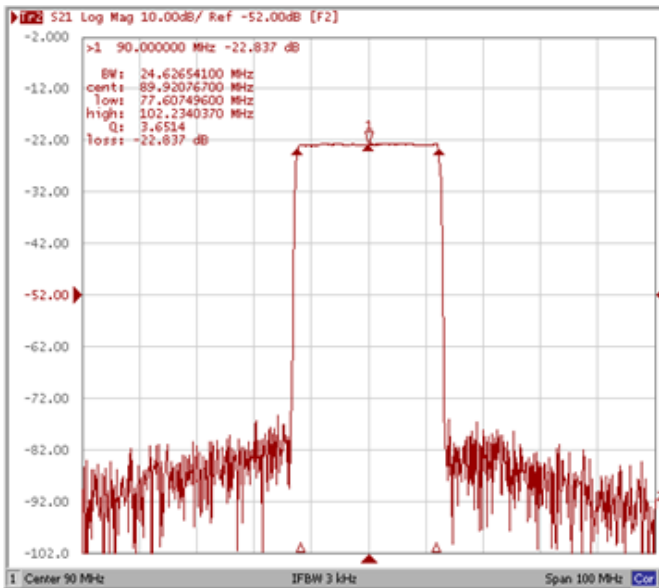
Frequency Characteristics

Frequency Response

*Room Temperature: +25°C

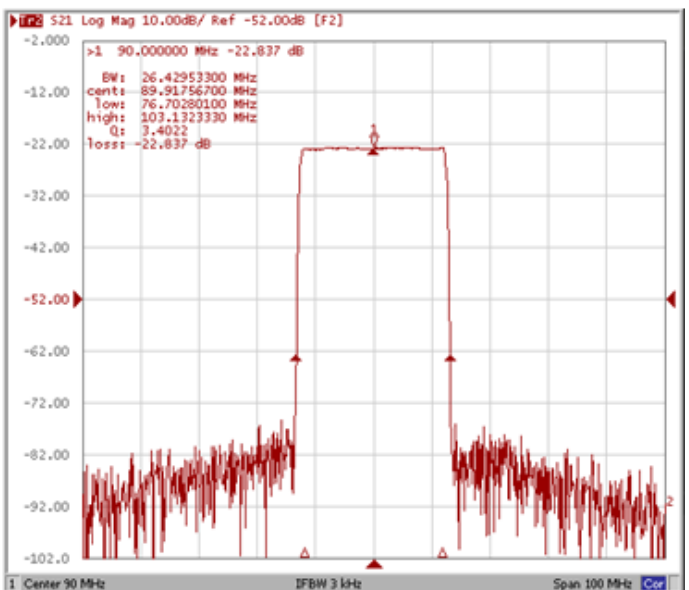
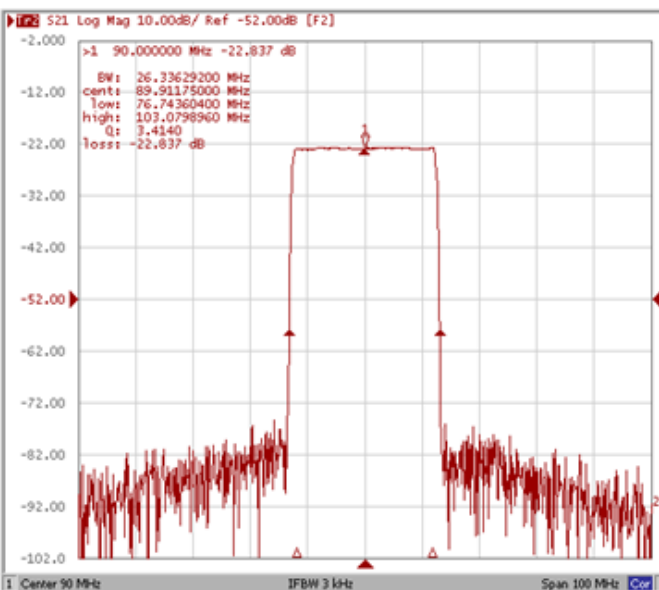
Bandwidth at -1.0 dB

Bandwidth at -20.0 dB



Bandwidth at -35.0 dB

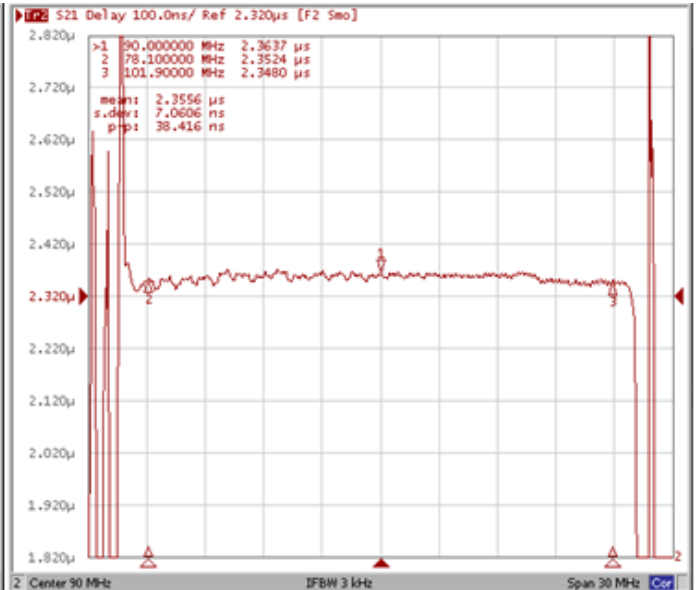
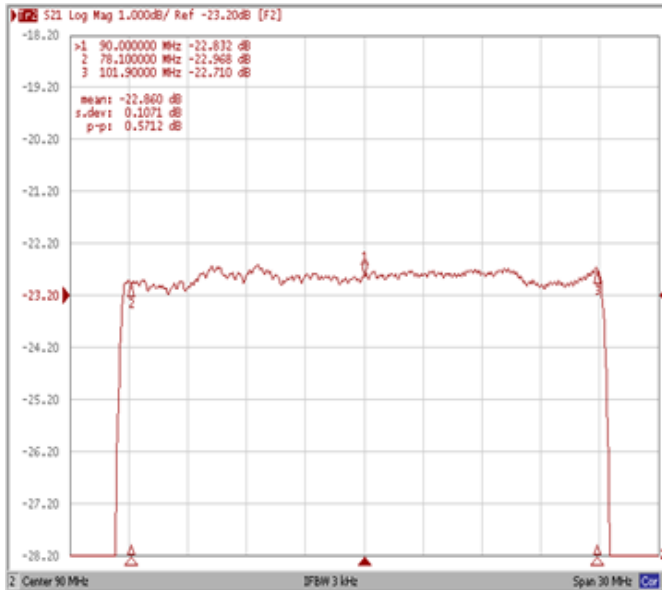
Bandwidth at -40.0 dB



Frequency Response

Ripple Variation Fo±11.90MHz

Group Delay Variation Fo±11.90MHz



Smith Chart

VSWR

