

- 100.0 MHz IF SAW Filter / 10.65 MHz Bandwidth
- Revision 0: 19. Oct. 2010

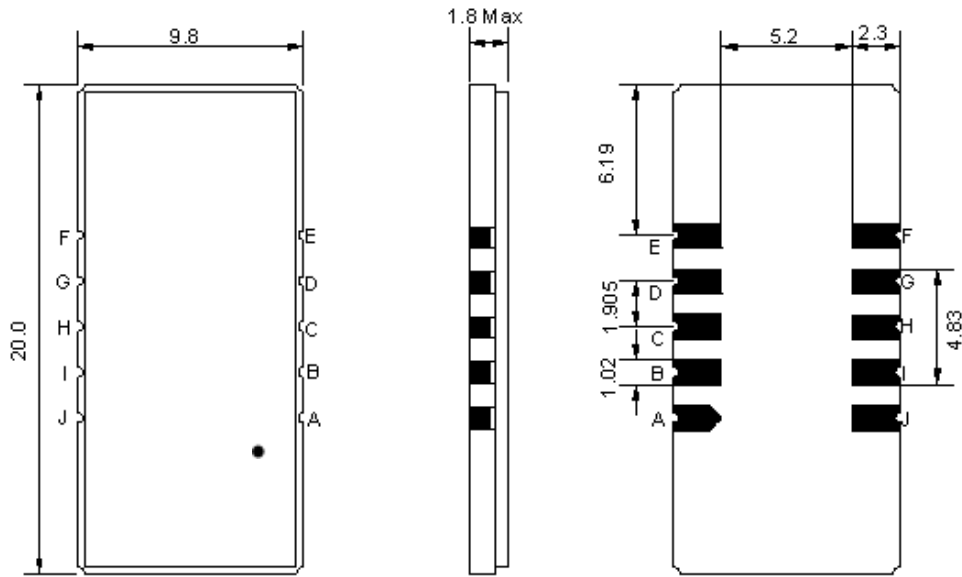
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-20	-	80
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	-	100.00	-
Insertion Loss at Fo	dB	-	21.50	23.00
Group Delay Variation (Fo±4.425MHz)	ns	-	53	90
Absolute Delay	us	-	2.07	-
Passband Ripple (Fo±4.425MHz)	dB	-	0.55	0.90
Bandwidth at -1dB	MHz	10.40	10.65	-
Bandwidth at -3dB	MHz	-	11.05	-
Bandwidth at -40dB	MHz	-	12.65	12.80
Relative Attenuation				
Lower Sidelobe	dB	50	53	-
Upper Sidelobe	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.

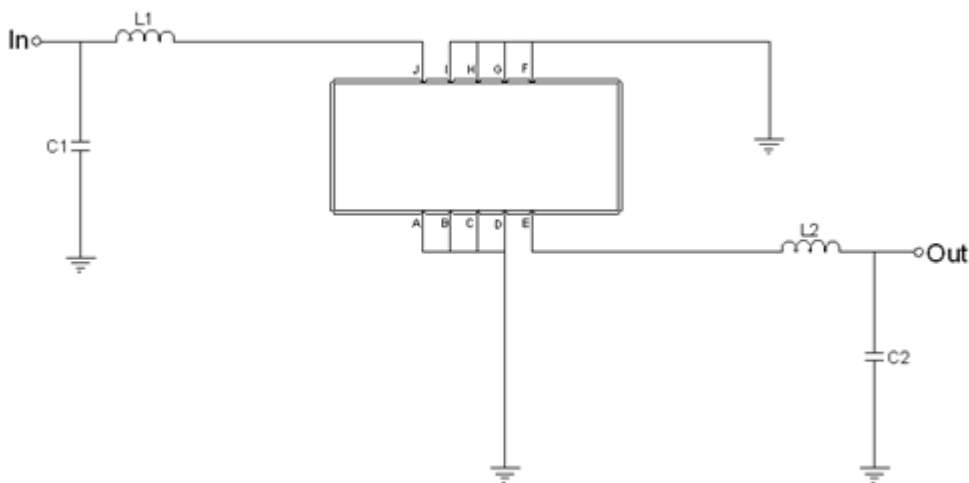
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA10010A:** 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=10nH, C1=3pF
Output	L2=10nH, C2=3pF
Source/Load Impedance	50 Ω

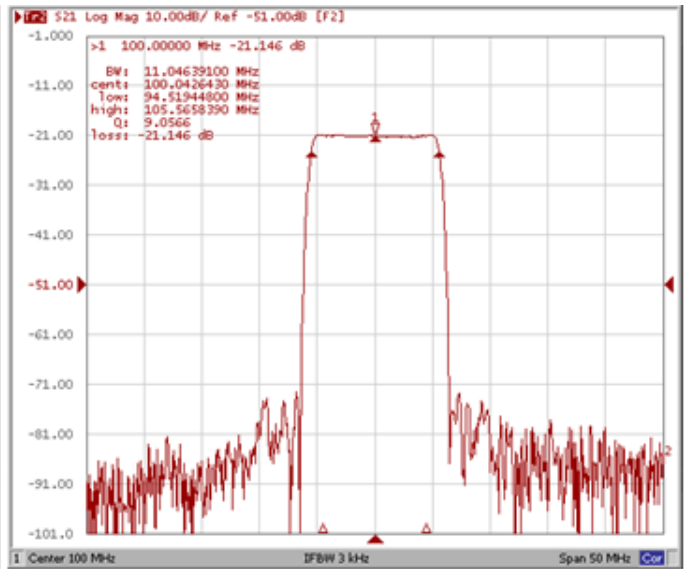
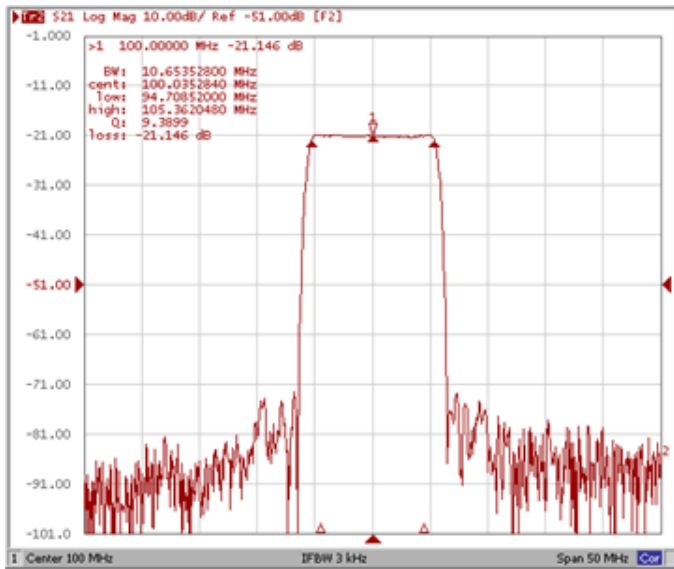
Frequency Characteristics

Frequency Response

Operating Temperature : +25 °C

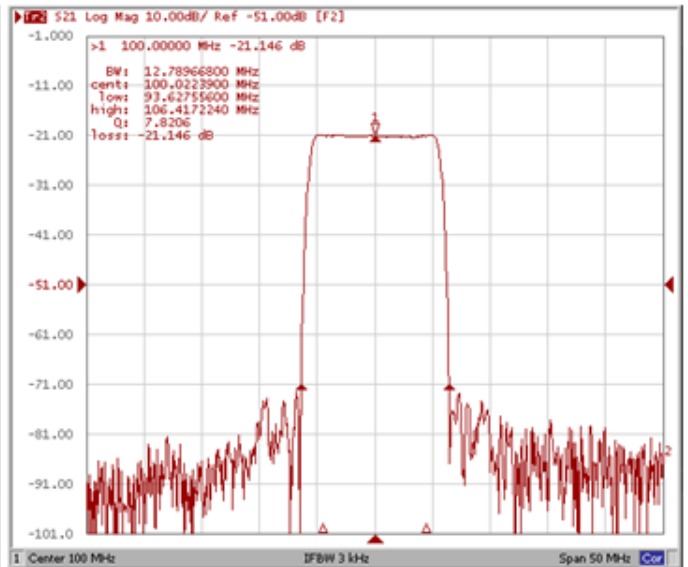
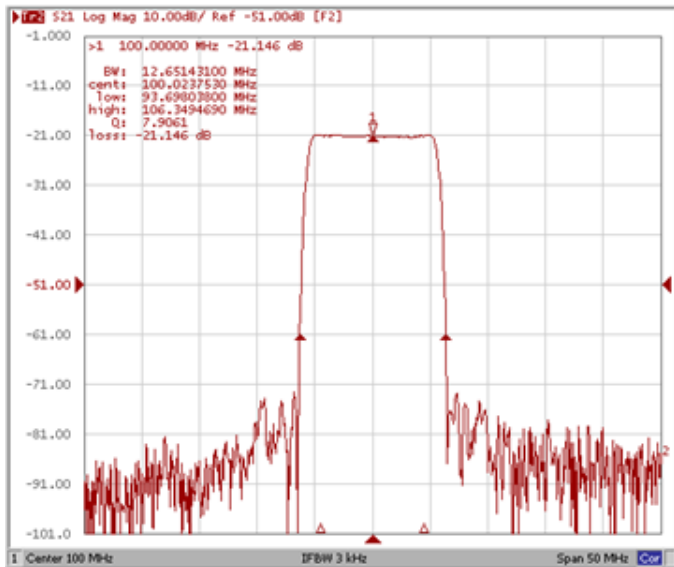
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

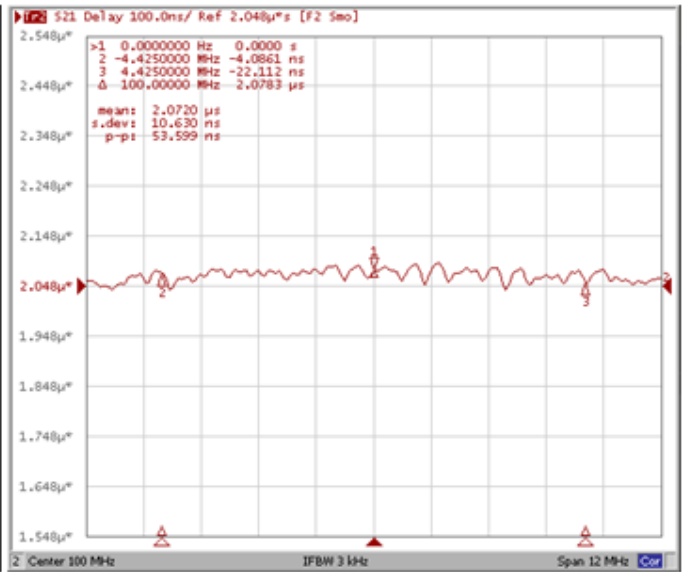
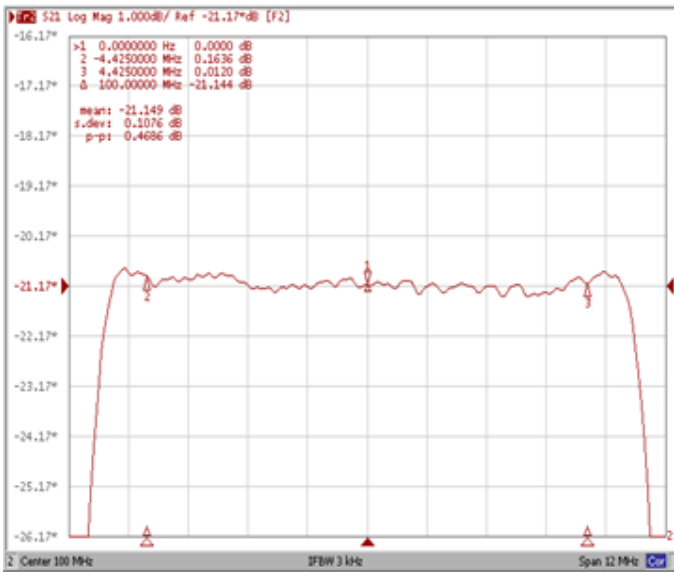
Bandwidth at -50.0 dB



Frequency Response

Ripple Variation Fo±4.425MHz

Group Delay Variation Fo±4.425MHz



Smith Chart

VSWR

