

- 80.0 MHz IF SAW Filter / 20.20 MHz Bandwidth
- Revision 0: 09. May 2008

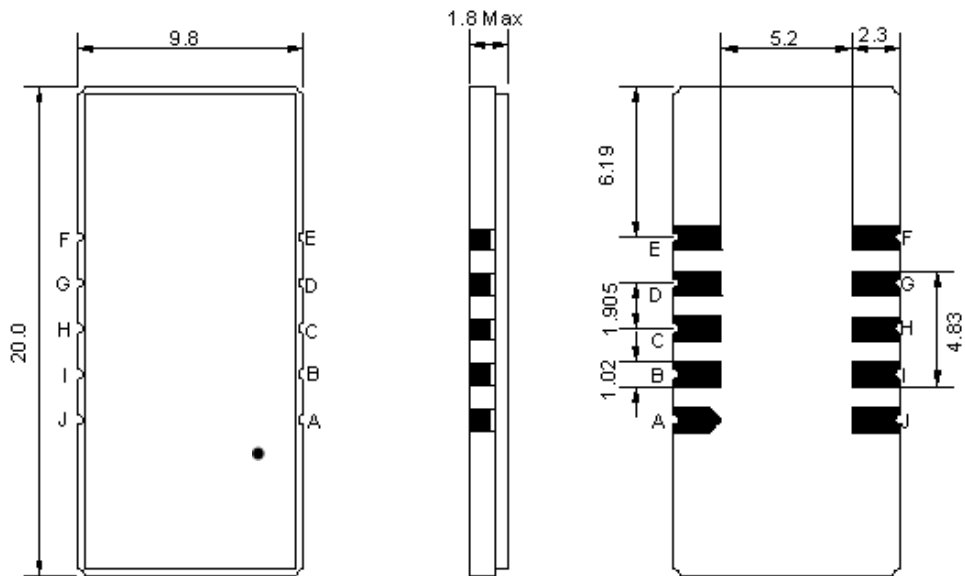
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation 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) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	D1			
Length x Width	mm <sup>2</sup>	-	20.0 x 9.8	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	80.0	-
Insertion Loss at Fo	dB	-	23.0	25.0
Group Delay Variation (Fo±9.75MHz)	ns	-	36	80
Absolute Delay	us	-	2.38	-
Passband Ripple (Fo±9.75MHz)	dB	-	0.50	1.00
Bandwidth at -1dB	MHz	-	20.20	-
Bandwidth at -3dB	MHz	-	20.50	-
Bandwidth at -40dB	MHz	-	21.80	-
Ultimate Rejection	dB	-	52	-
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.

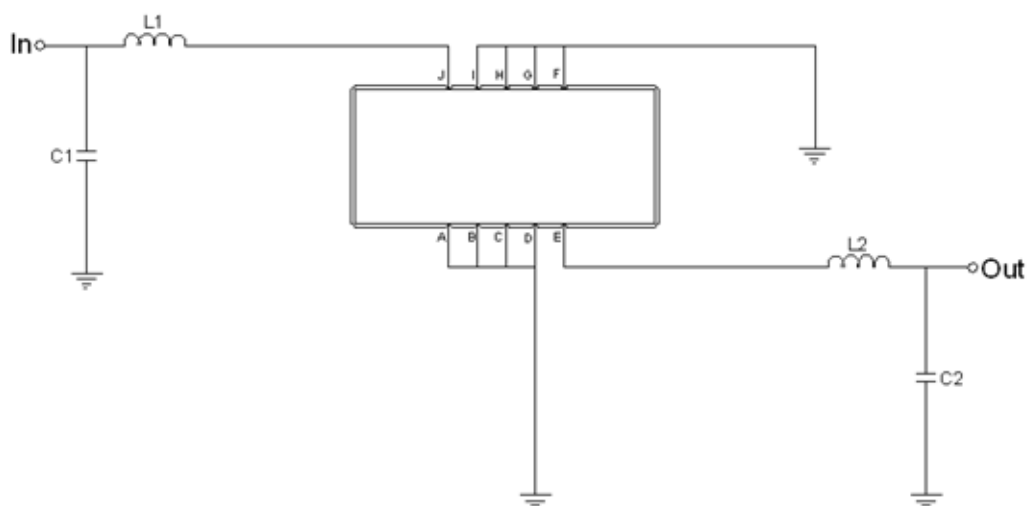
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA08020A:** 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



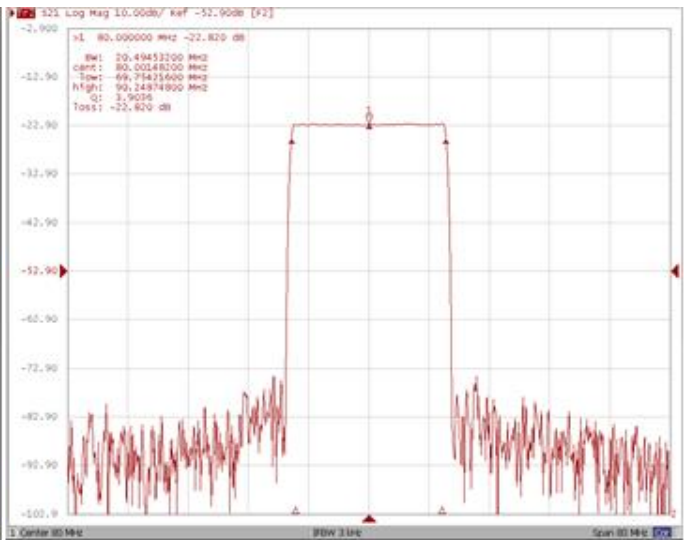
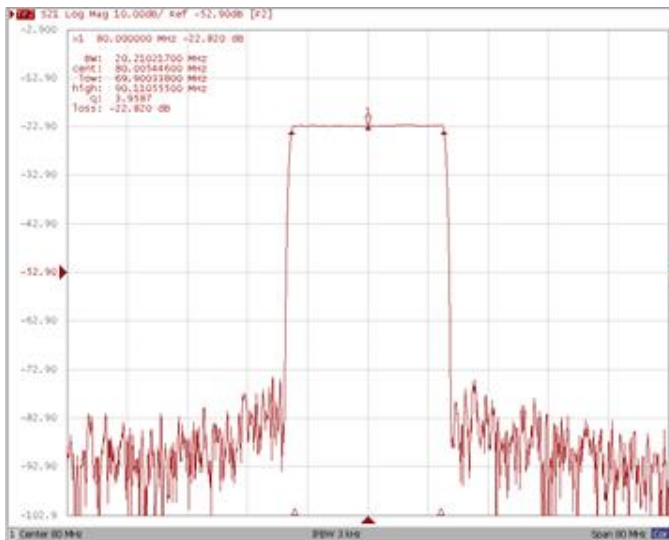
Test Fixture & Values	
Input	L1=120nH, C1=8.2pF
Output	L2=120nH, C2=15pF
Source/Load Impedance	50 Ω

## Frequency Characteristics

### Frequency Response

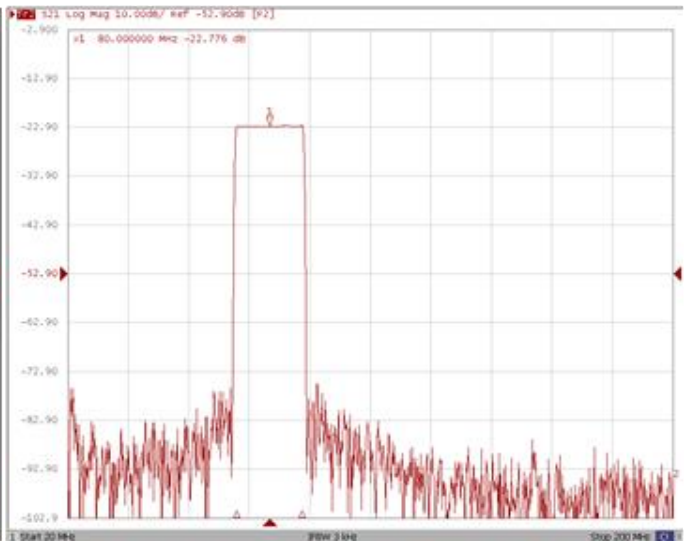
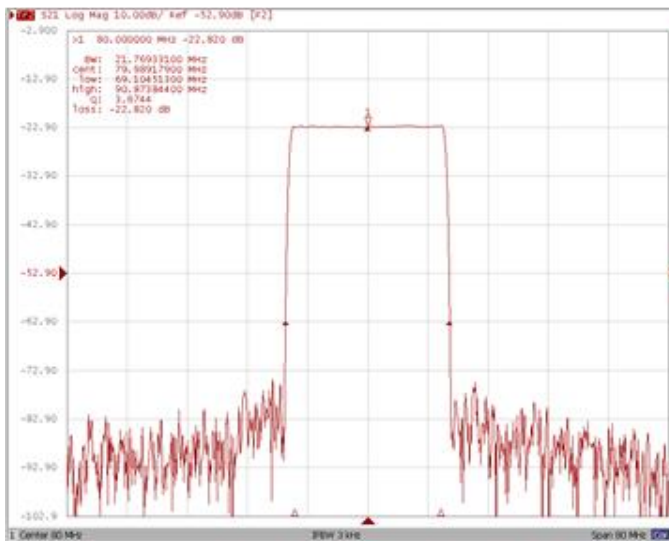
**Bandwidth at -1.0 dB**

**Bandwidth at -3.0 dB**



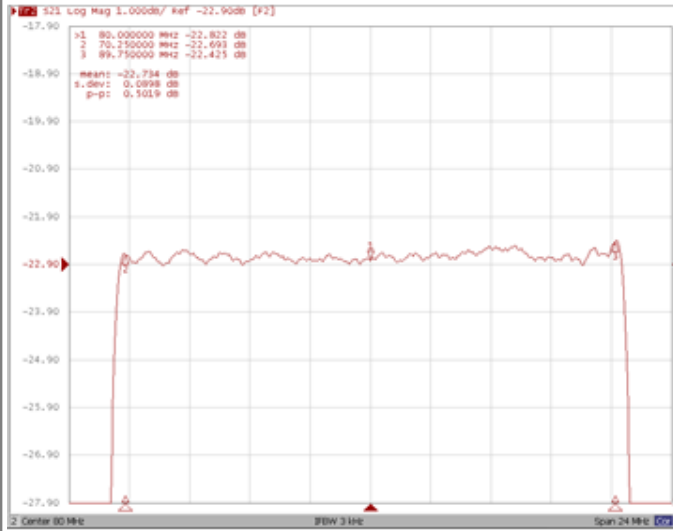
**Bandwidth at -40.0 dB**

**Wide-Band**

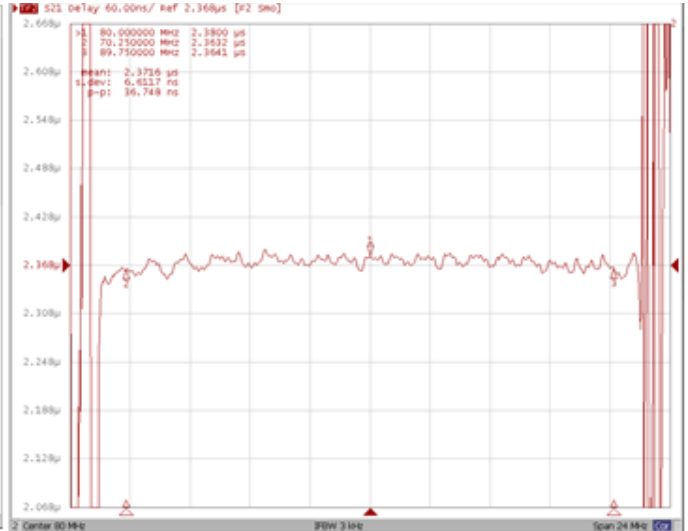


**Frequency Response**

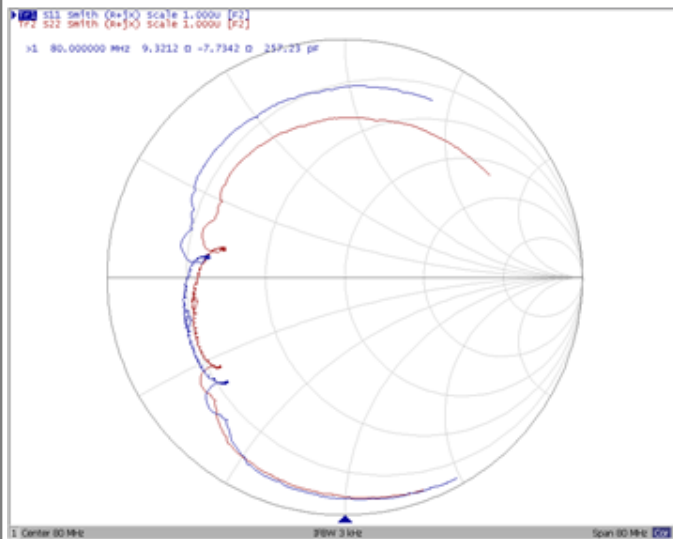
Ripple Variation Fo±9.75MHz



Group Delay Variation Fo±9.75MHz



Smith Chart



VSWR

