

- 87.50 MHz IF SAW Filter / 29.55 MHz Bandwidth
- Revision 0: 13. May 2010

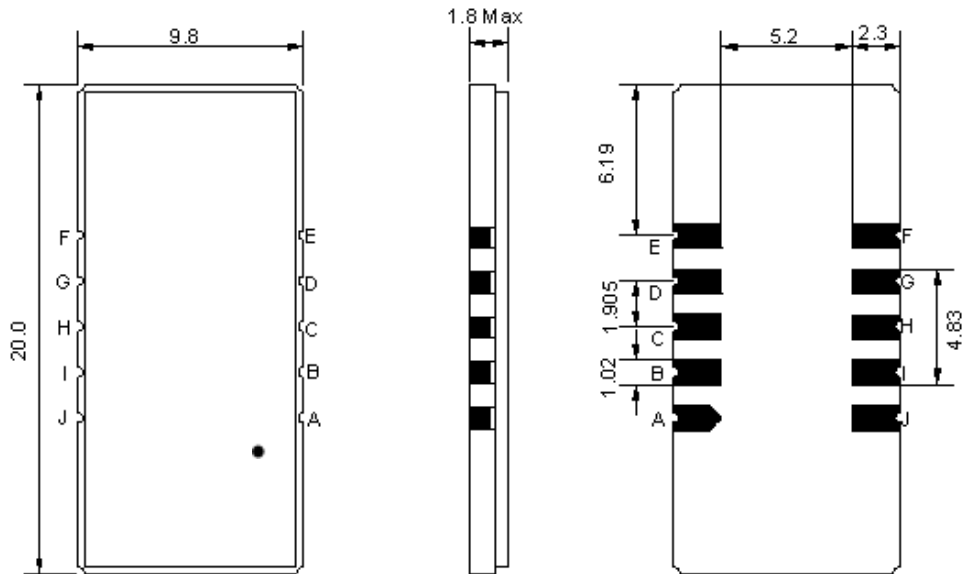
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-5	-	+70
Storage Temperature Range	°C	-40	-	+85
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	-	87.50	-
Insertion Loss at Fo	dB	-	26.00	28.00
Group Delay Variation (Fo±14.32MHz)	nsec	-	29	70
Absolute Delay at Fo	usec	-	2.08	-
Passband Ripple Variation (Fo±14.32MHz)	dB	-	0.55	1.00
Bandwidth at -1dB	MHz	29.30	29.55	-
Bandwidth at -3dB	MHz	-	29.90	-
Bandwidth at -50dB	MHz	-	31.50	31.70
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.

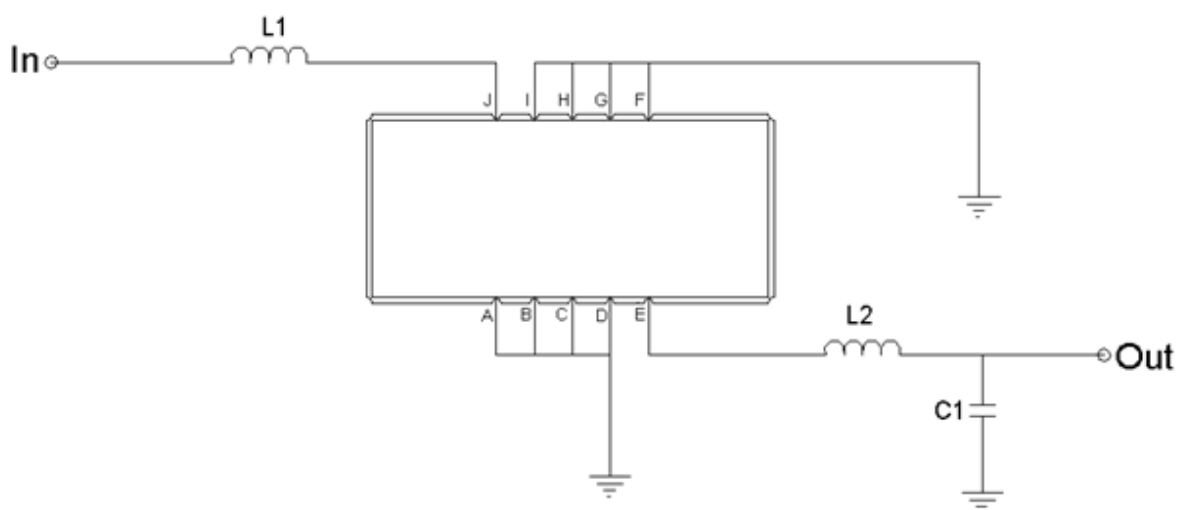
## Package Dimensions



- ① TRANSKO: Brand
- ② TA08729A: 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



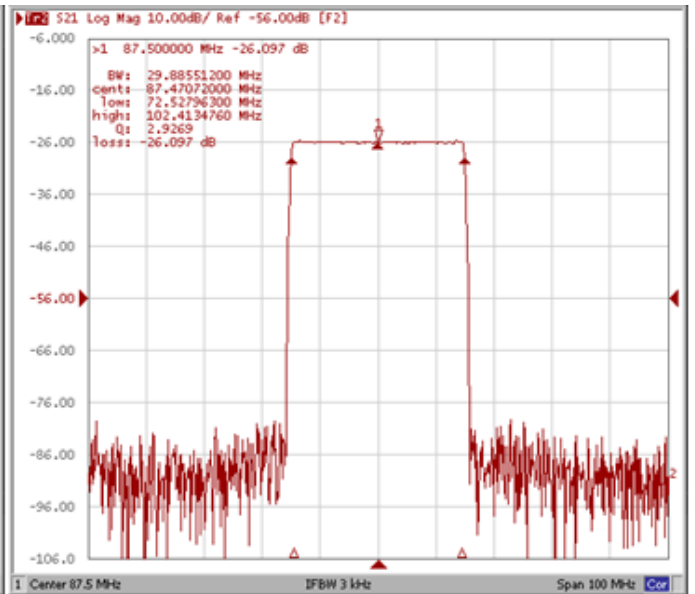
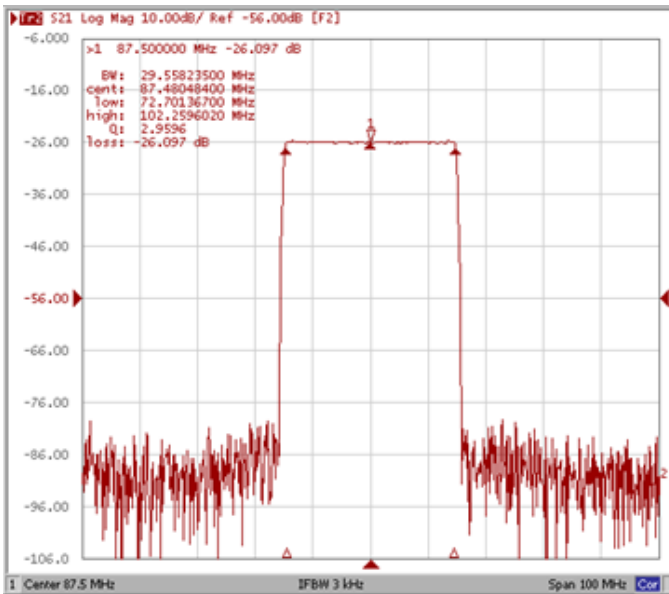
Test Fixture & Values	
Input	L1 = 120 nH
Output	L2 = 120 nH, C1 = 24 pF
Source/Load Impedance	50 Ω

## Frequency Characteristics

### Frequency Response

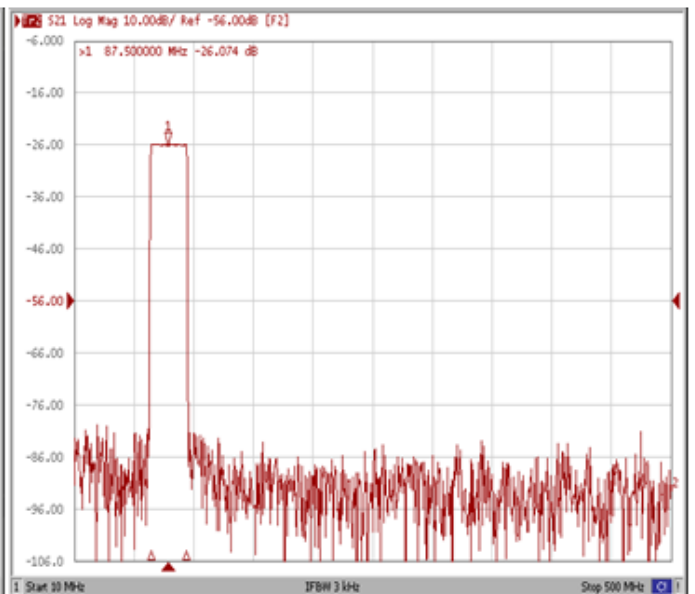
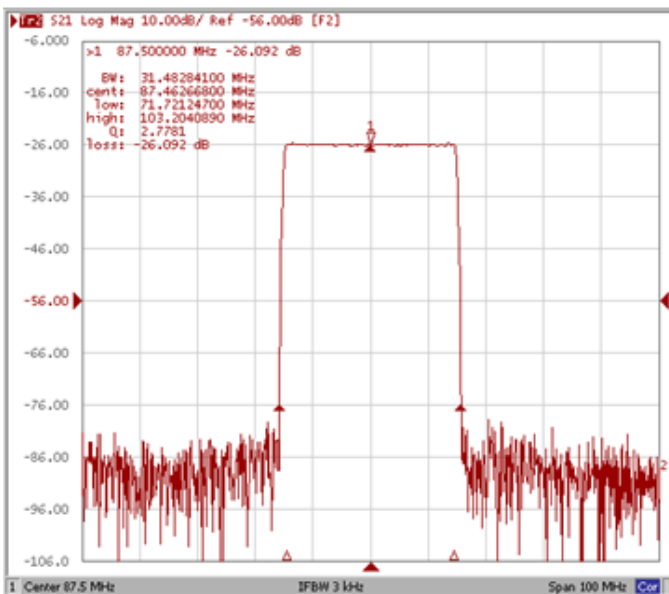
**Bandwidth at -1.0 dB**

**Bandwidth at -10.0 dB**



**Bandwidth at -50.0 dB**

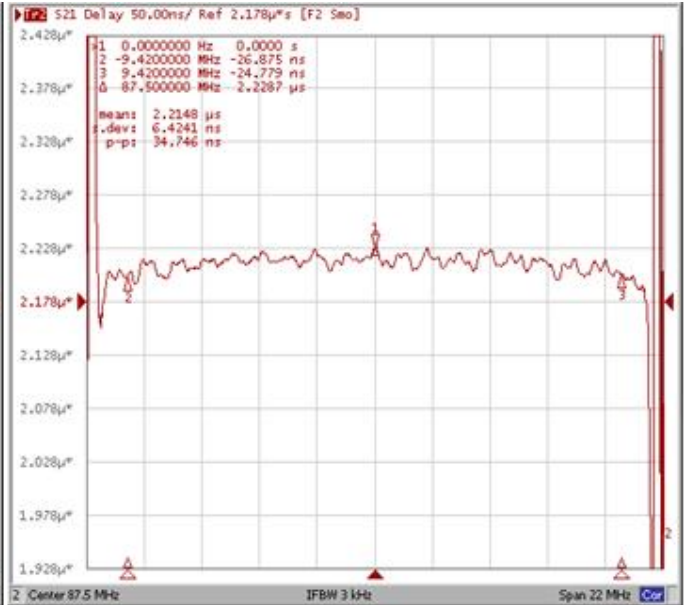
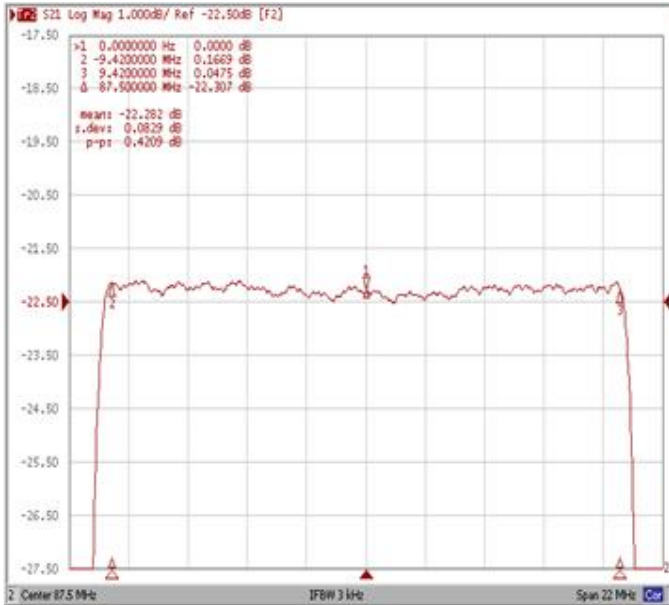
**Wide-Band**



**Frequency Response**

**Ripple Variation Fo±14.32MHz**

**Group Delay Variation Fo±14.32MHz**



**Smith Chart**

**VSWR**

