

- 127.55 MHz IF SAW Filter / 24.70 MHz Bandwidth
- Revision 0: 10. Nov. 2010

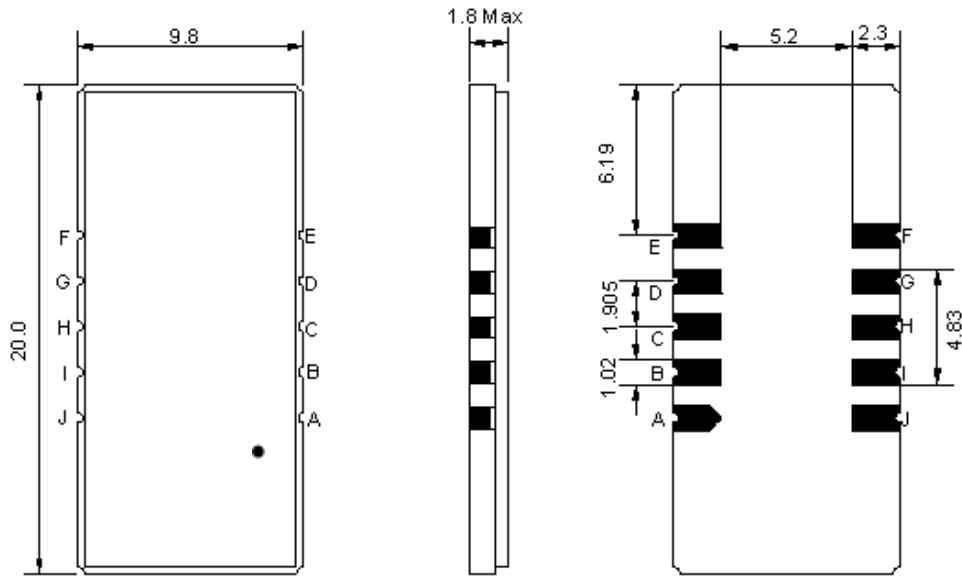
## Electrical Characteristics

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) <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	-	127.55	-
Insertion Loss at Fo	dB	-	23.90	25.50
Group Delay Variation (Fo±11.90MHz)	nsec	-	35	80
Absolute Delay at Fo	usec	-	2.24	2.50
Passband Ripple Variation (Fo±11.90MHz)	dB	-	0.65	1.00
Bandwidth at -1dB	MHz	24.50	24.70	-
Bandwidth at -20dB	MHz	-	25.88	26.05
Bandwidth at -35dB	MHz	-	26.20	26.35
Bandwidth at -40dB	MHz	-	26.30	26.45
Bandwidth at -50dB	MHz	-	26.40	-
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.

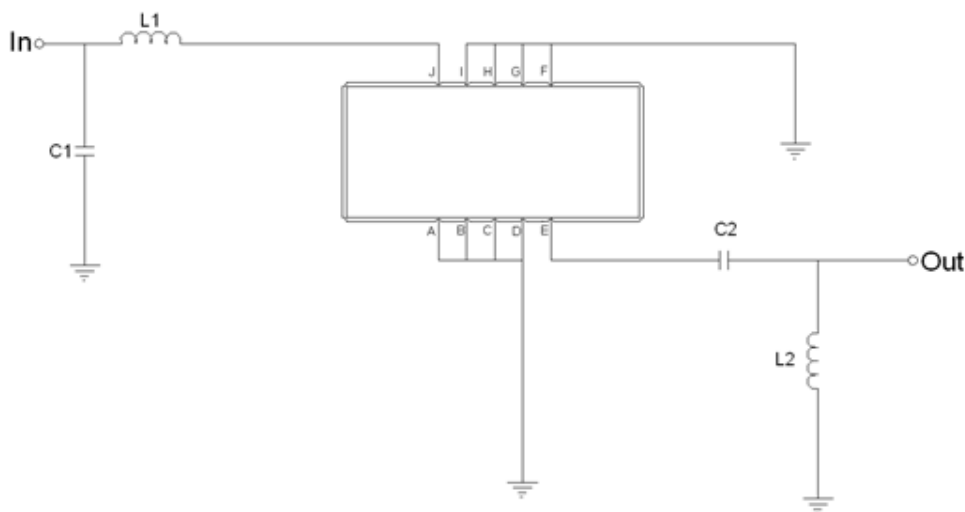
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA12724A:** 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 = 68 nH, C1 = 20 pF
Output	L2 = 47 nH, C2=100 pF
Source/Load Impedance	50 $\Omega$

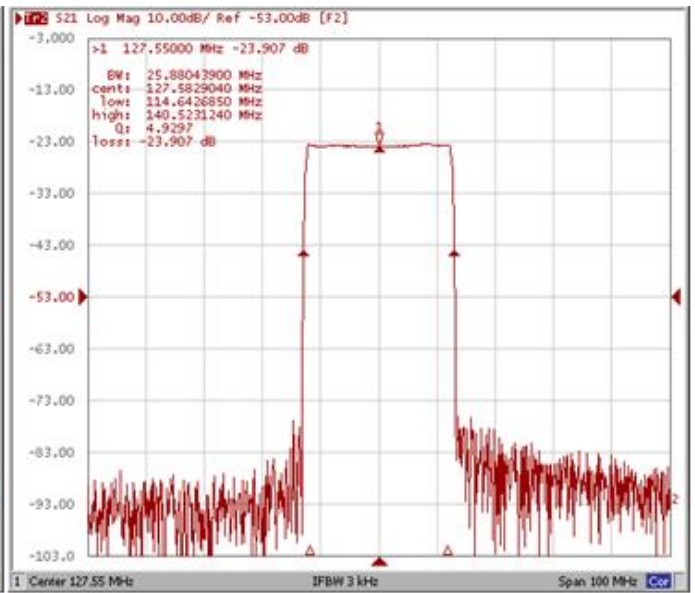
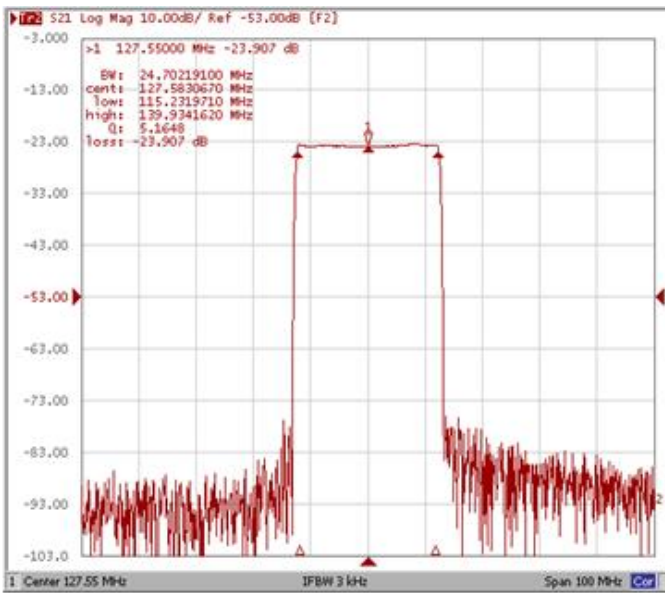
## Frequency Characteristics

### Frequency Response

Room Temperature: +25°C

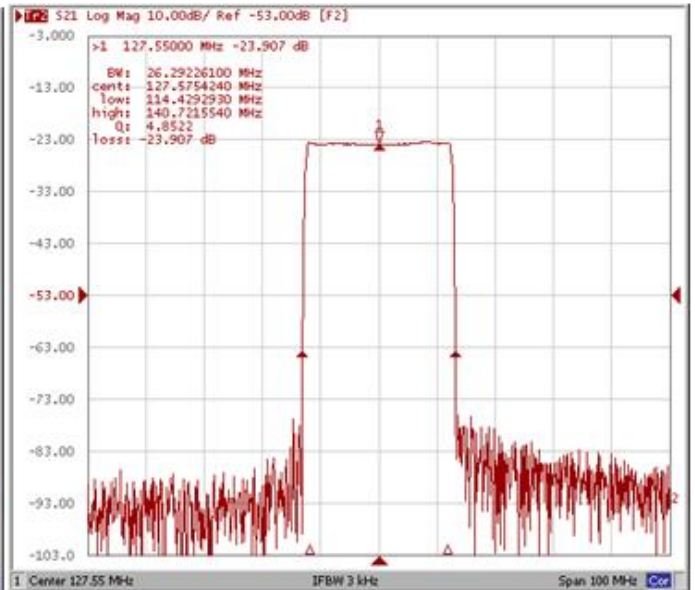
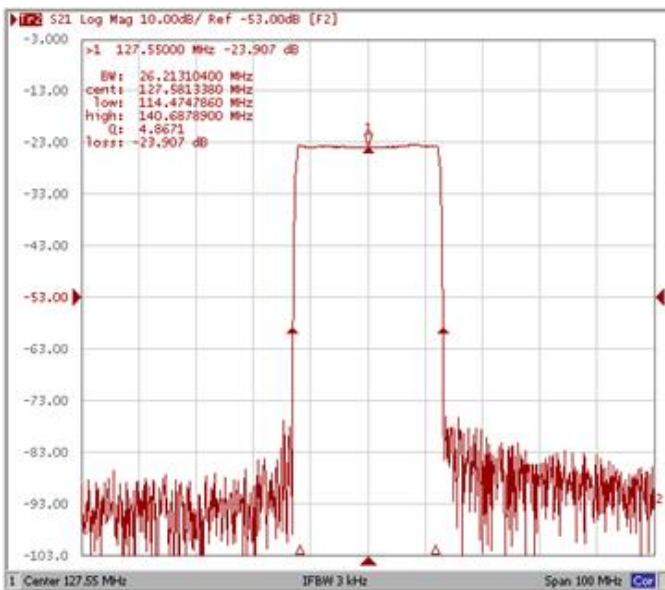
**Bandwidth at -1.0 dB**

**Bandwidth at -20.0 dB**



**Bandwidth at -35.0 dB**

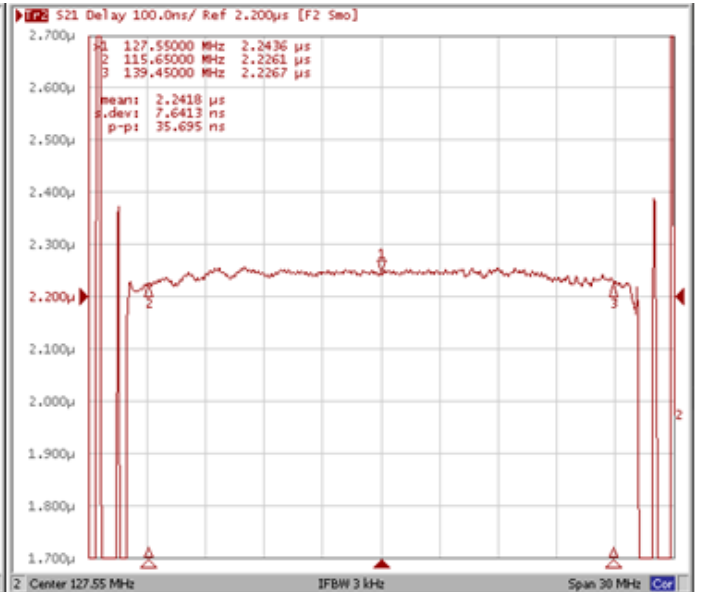
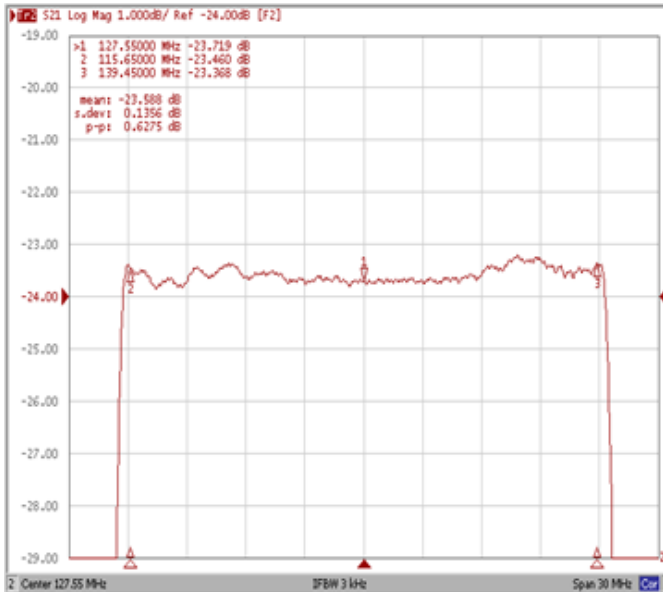
**Bandwidth at -40.0 dB**



**Frequency Response**

**Ripple Variation  $F_0 \pm 11.90\text{MHz}$**

**Group Delay Variation  $F_0 \pm 11.90\text{MHz}$**



**Smith Chart**

**VSWR**

