

- 160.0 MHz IF SAW Filter / 26.25 MHz Bandwidth
- Revision 0: 07. May 2009

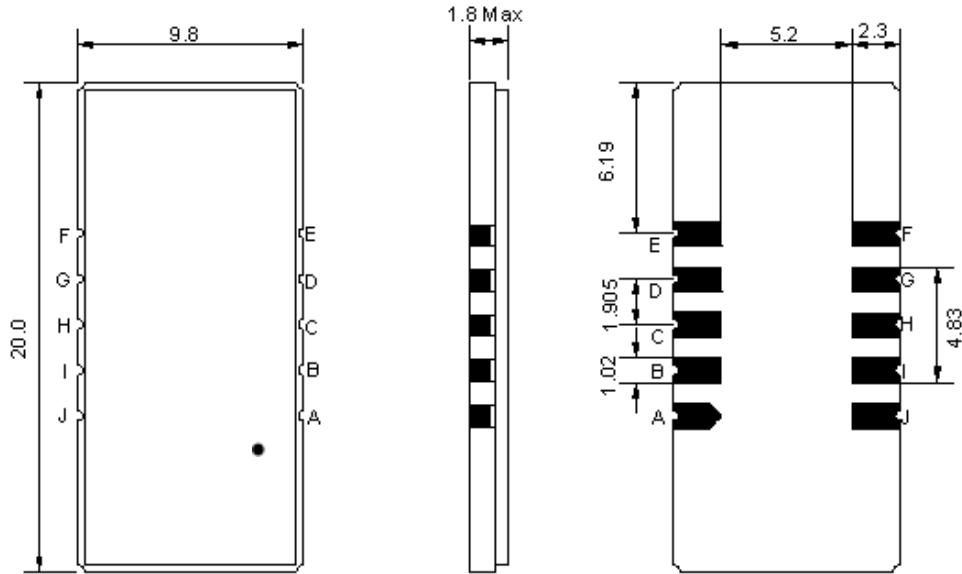
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-5	-	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	-	160.0	-
Insertion Loss at Fo	dB	-	24.35	26.00
Group Delay Variation (Fo±12.50MHz)	nsec	-	37	70
Absolute Delay	usec	-	2.24	2.50
Passband Ripple (Fo±12.50MHz)	dB	-	0.60	1.00
Bandwidth at -1dB	MHz	26.10	26.25	-
Bandwidth at -3dB	MHz	-	26.55	-
Bandwidth at -40dB	MHz	-	27.93	-
Bandwidth at -50dB	MHz	-	28.05	28.30
Ultimate Rejection	dB	-	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.

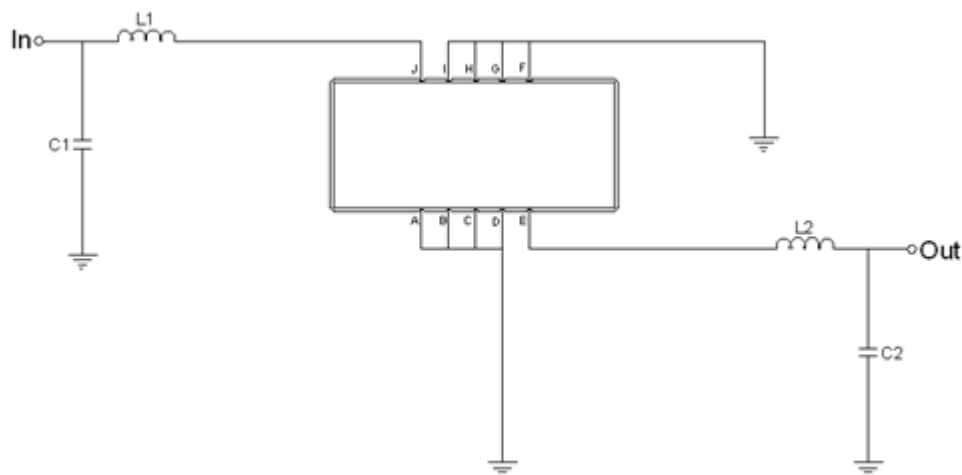
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA16026A:** 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



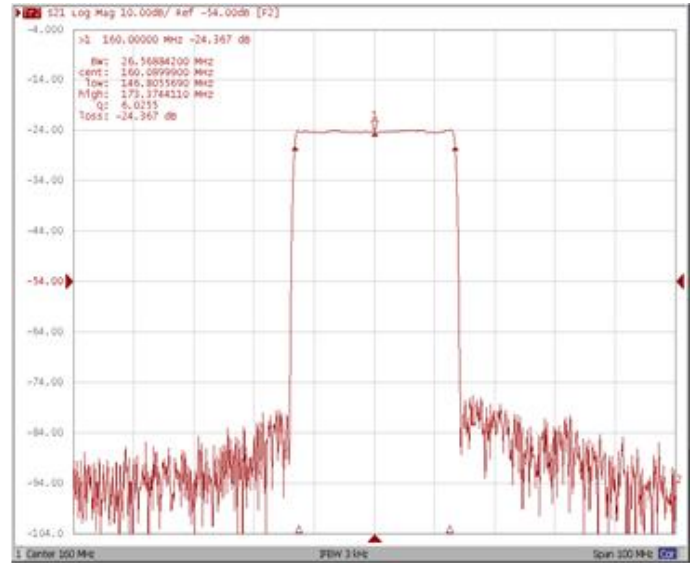
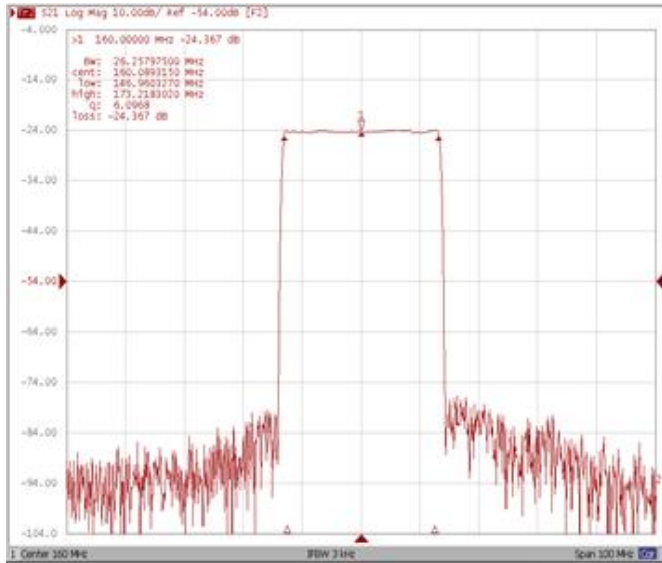
Test Fixture & Values	
Input	L1=47nH, C1=20pF
Output	L2=56nH, C2=18pF
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

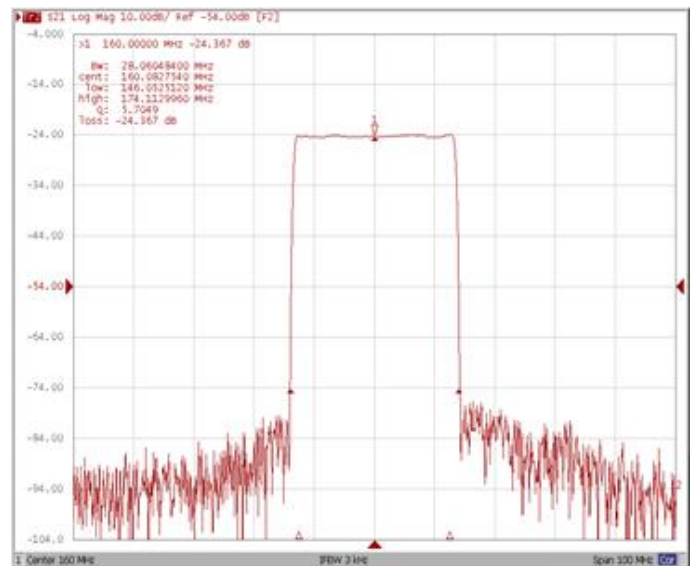
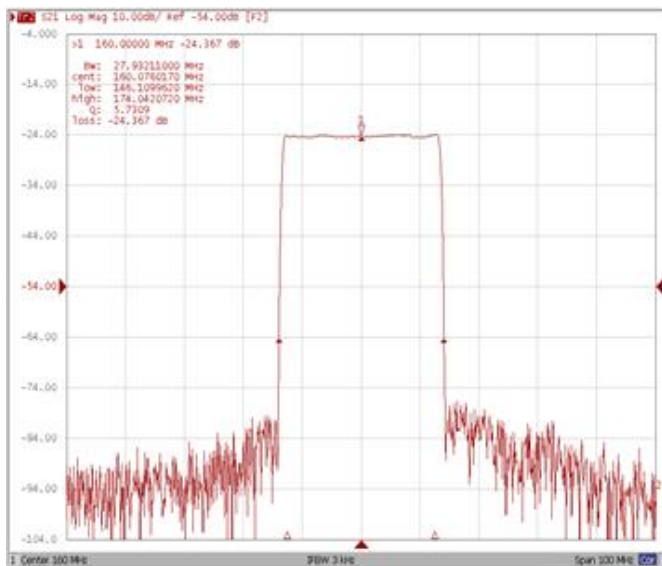
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

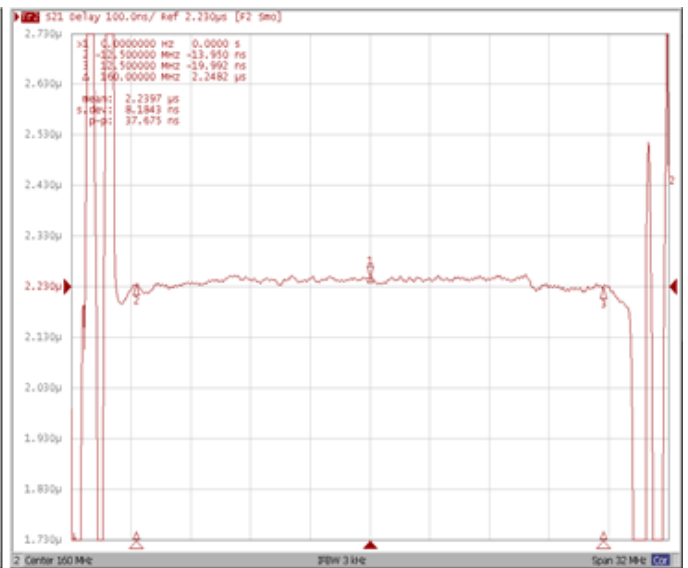
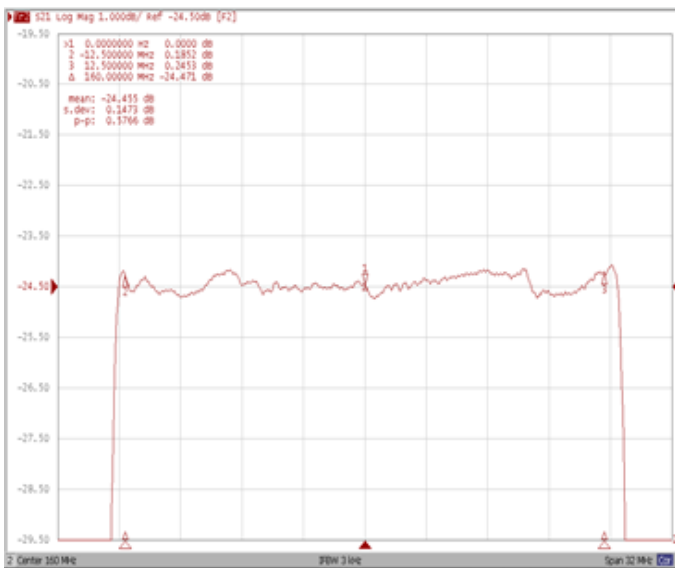
Bandwidth at -50.0 dB



Frequency Response

Ripple Variation $F_{o\pm 12.50\text{MHz}}$

Group Delay Variation $F_{o\pm 12.50\text{MHz}}$



Smith Chart

VSWR

