

- 80.0 MHz IF SAW Filter / 30.20 MHz Bandwidth
- Revision 0: 29. Aug. 2008

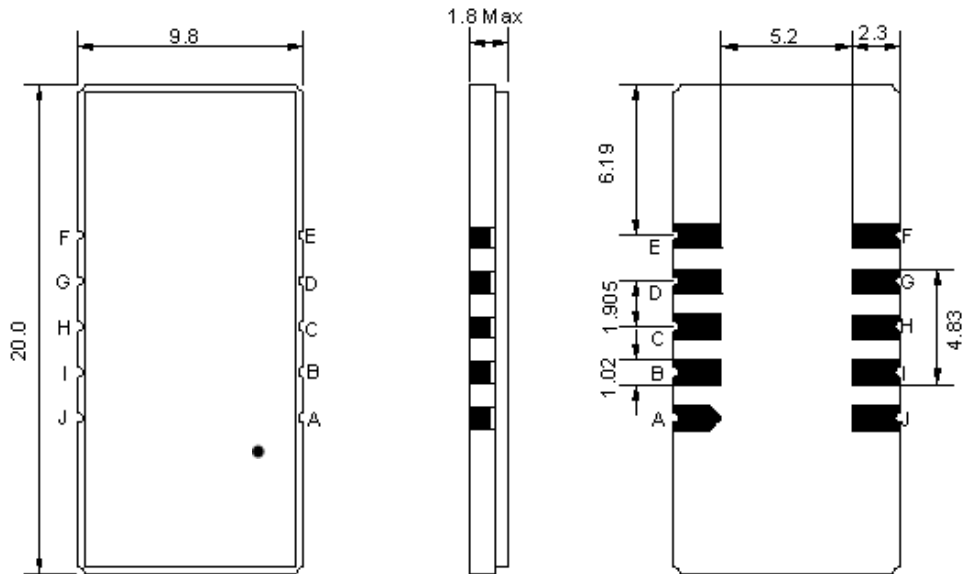
Electrical Characteristics

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) ⁽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	-	80.0	-
Insertion Loss at Fo	dB	-	25.70	28.00
Group Delay Variation at Fo ± 14.75 MHz	nsec	-	25	60
Absolute Delay at Fo	usec	-	1.78	-
Passband Ripple Variation at Fo ± 14.75 MHz	dB	-	0.55	0.90
Bandwidth at -1dB	MHz	29.90	30.20	-
Bandwidth at -3dB	MHz	-	30.60	-
Bandwidth at -25dB	MHz	-	32.22	-
Bandwidth at -40dB	MHz	-	32.65	32.90
Relative Attenuation				
Lower Sidelobe	dB	48	52	-
Upper Sidelobe	dB	48	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.

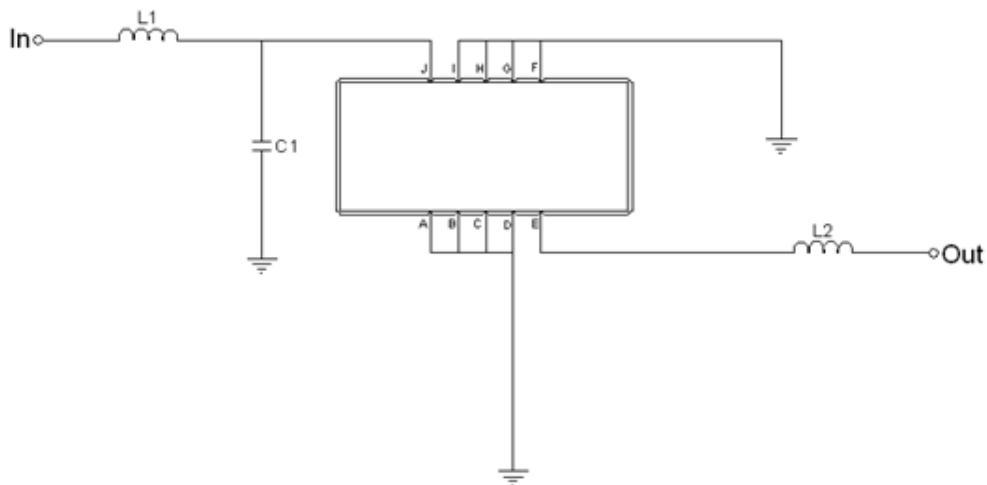
Package Dimensions



- ① TRANSKO: Brand
- ② TA08030A: 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



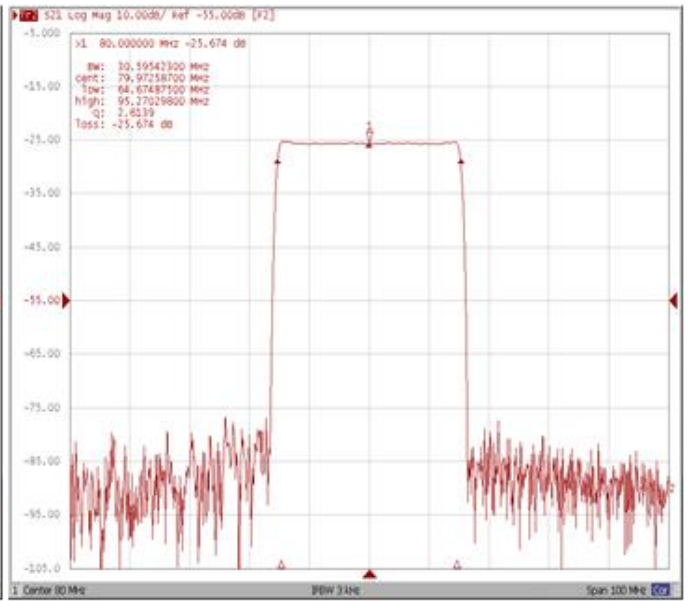
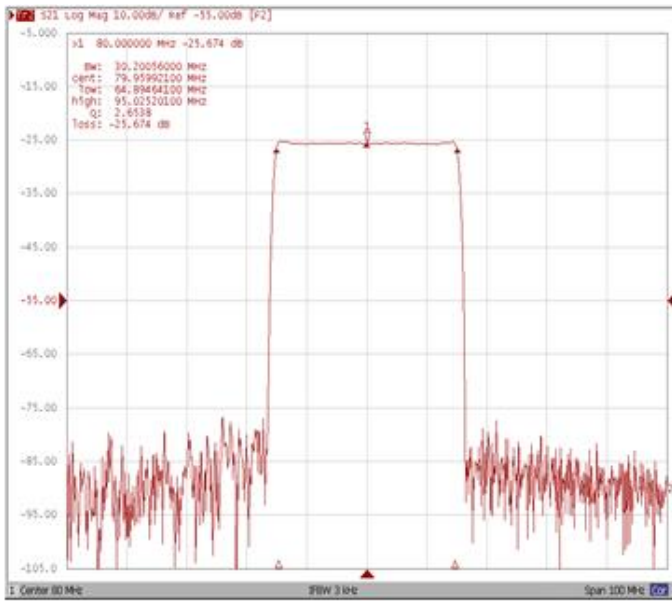
Test Fixture & Values	
Input	L1 = 120 nH, C2 = 3.3 pF
Output	L2 = 150 nH
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

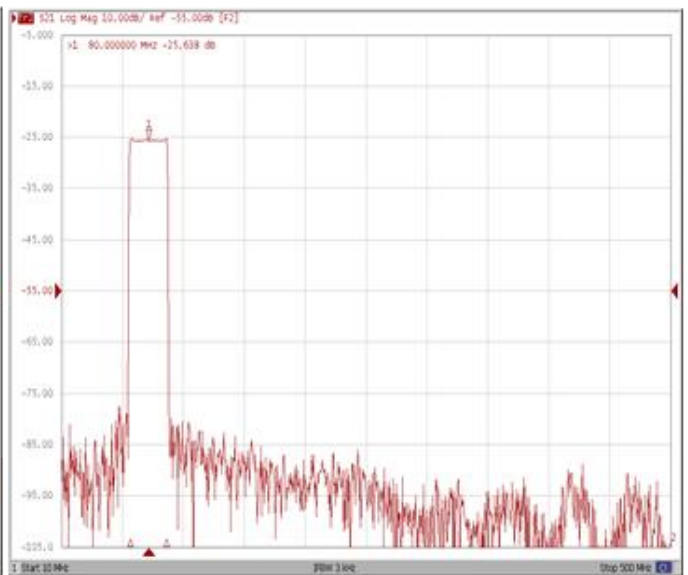
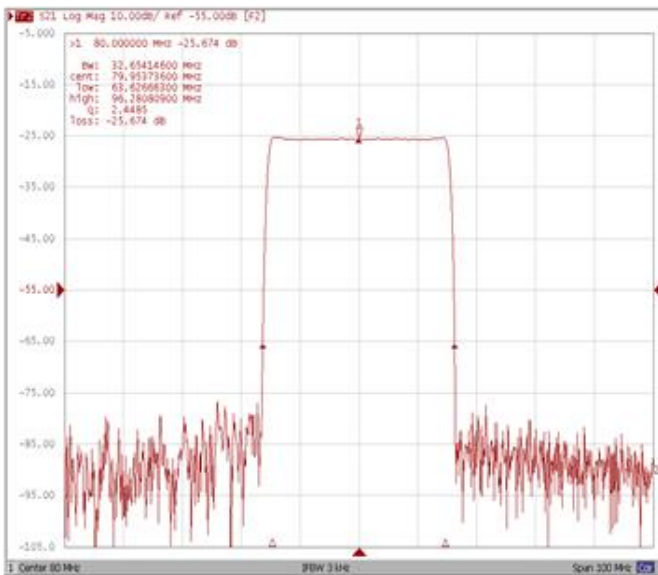
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

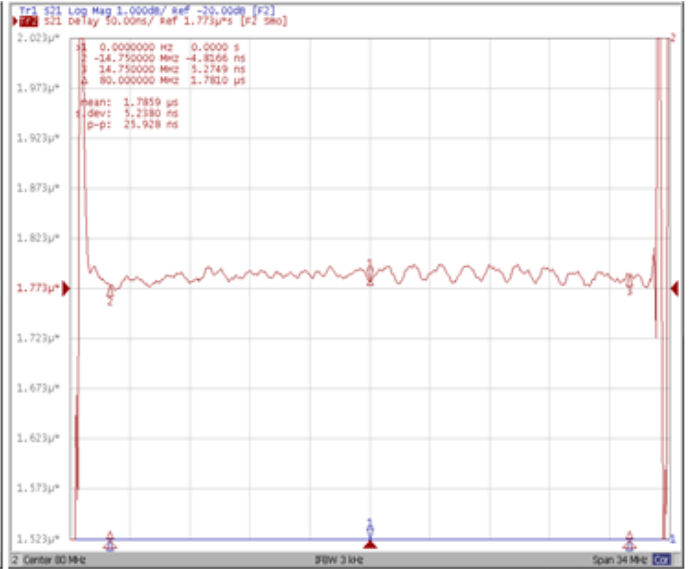
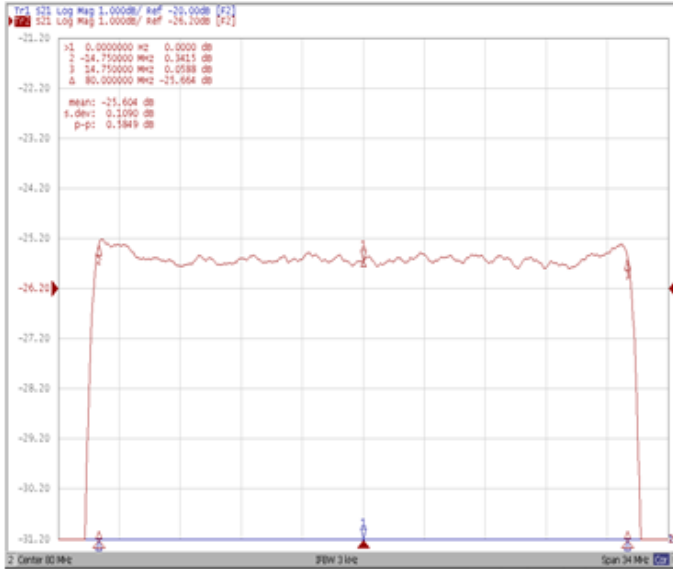
Wide-Band



Frequency Response

Ripple Variation Fo±14.75MHz

Group Delay Variation Fo±14.75MHz



Smith Chart

VSWR

