

- 85.10 MHz IF SAW Filter / 19.69 MHz Bandwidth
- Revision 0: 05. Aug. 2008

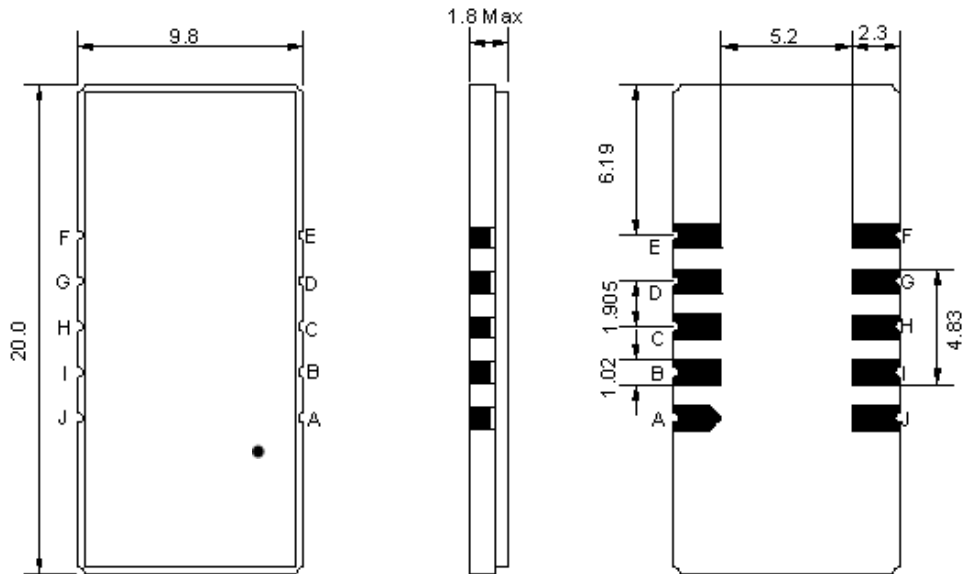
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-20	-	70
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	-	85.1	-
Insertion Loss at Fo	dB	-	23.0	25.0
Group Delay Variation (Fo±9.22MHz)	ns	-	35	80
Absolute Delay	us	-	1.95	-
Temperature Coefficient	ppm/°C	-	-72	-
Passband Ripple (Fo±9.22MHz)	dB	-	0.55	0.95
Bandwidth at -1dB	MHz	-	19.69	-
Bandwidth at -3dB	MHz	19.90	20.02	-
Bandwidth at -25dB	MHz	-	21.12	21.20
Bandwidth at -40dB	MHz	-	21.39	-
Ultimate Rejection	dB	50	52	-

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.

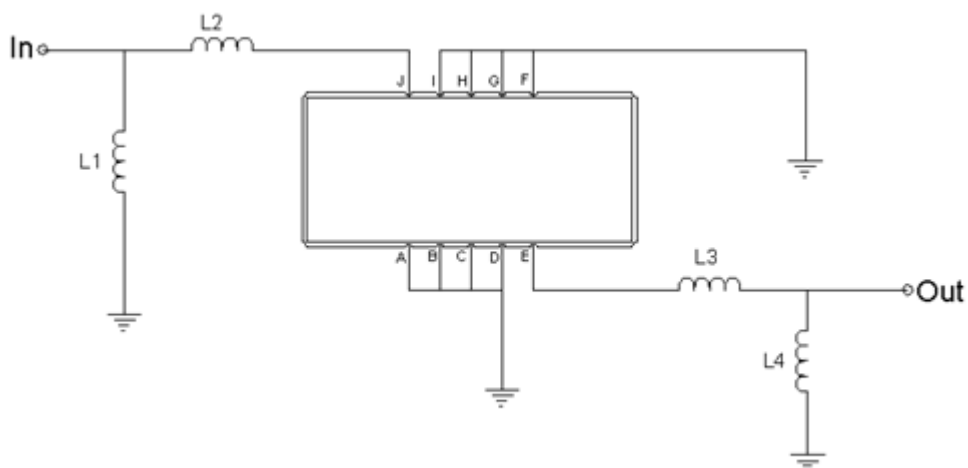
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA08520A:** 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



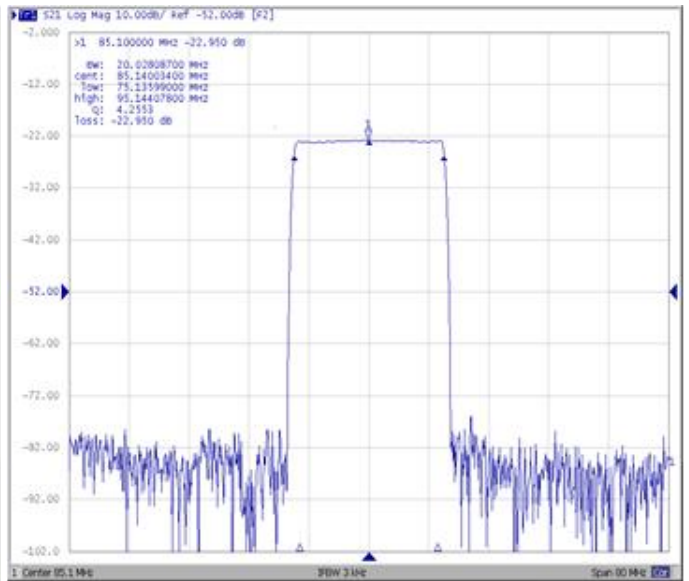
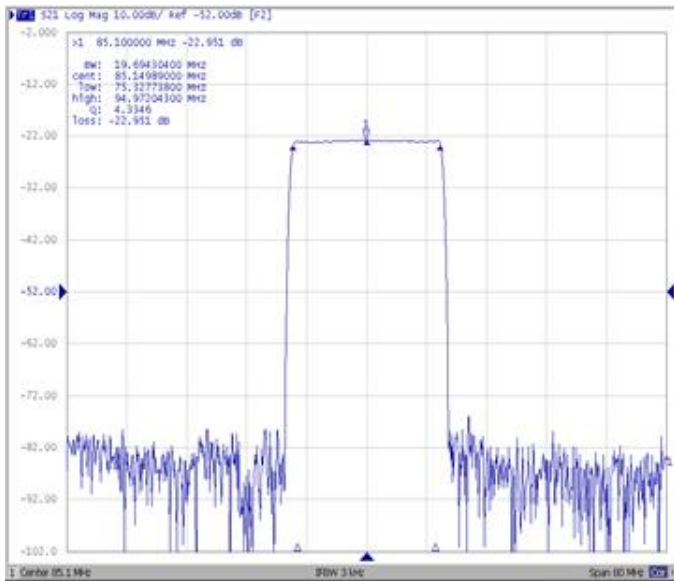
Test Fixture & Values	
Input	L1=470 nH, L2=56 nH
Output	L3=56 nH, L4=470 nH
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

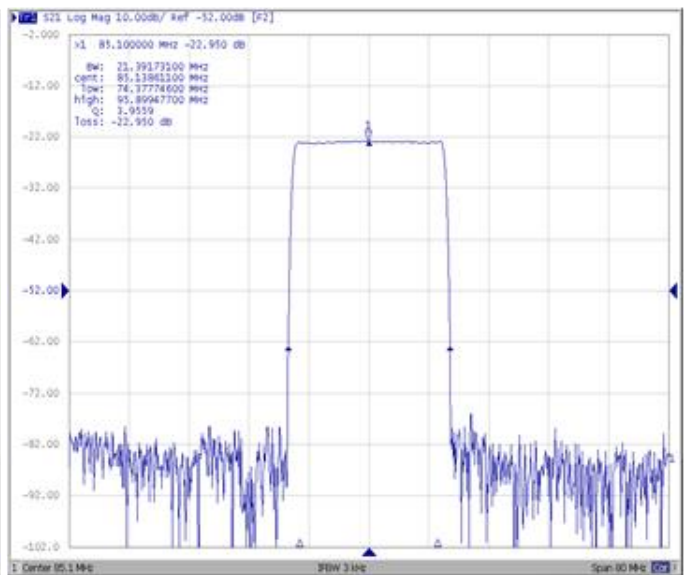
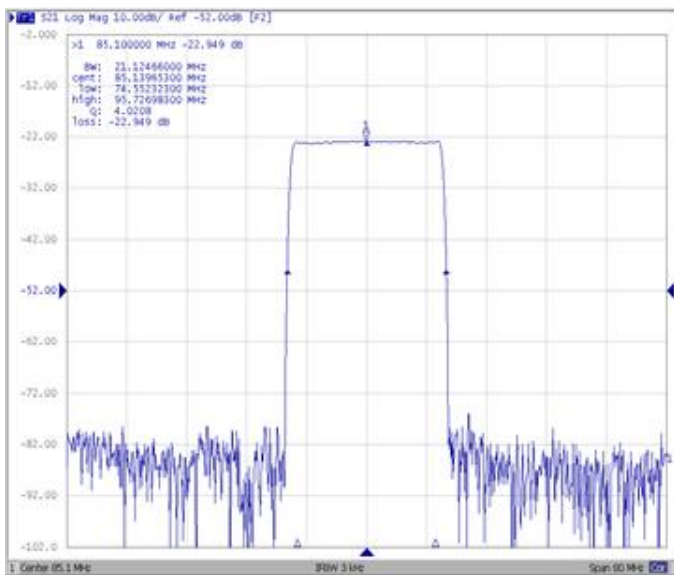
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -25.0 dB

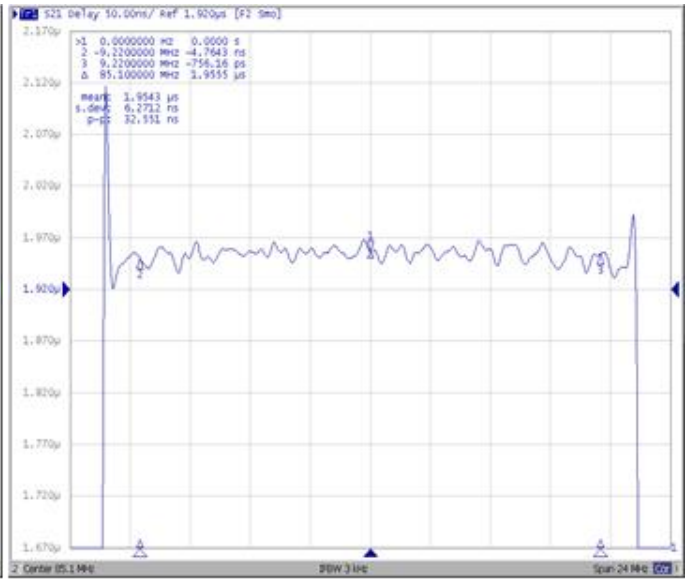
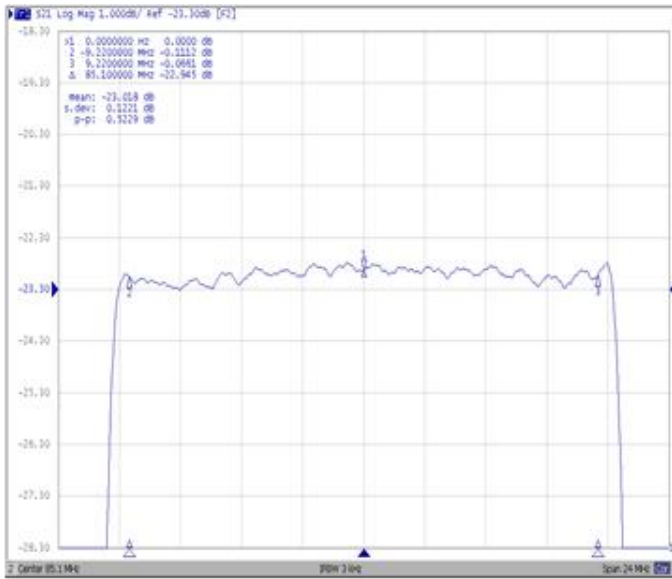
Bandwidth at -40.0 dB



Frequency Response

Ripple Variation Fo±9.22MHz

Group Delay Variation Fo±9.22MHz



Smith Chart

VSWR

