SL24028AV

240MHz IF SAW Filter
28.0MHz Bandwidth
Revision 1 : 20. FEB. 2008

RoHS compliance
Pb free

- ❒ Electrical Characteristics
- ❒ Package Dimensions
- ❒ Testing Environment
- ❒ Frequency Characteristics

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❒ Electrical Characteristics

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	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	V			
Length x Width	mm²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	240.0	-
Insertion Loss at Fo	dB	-	15.5	18.0
Amplitude Ripple within fo ±12.5 MHz	dB_{p-p}	-	0.35	1.00
Group Delay Variation within fo ±12.5 MHz	nsec	-	22	50
Absolute Delay at Fo	µsec	-	0.7	-
Bandwidth at –1.0 dB	MHz	27.20	28.02	-
Bandwidth at –20.0 dB	MHz	-	32.20	-
Bandwidth at –40.0 dB	MHz	-	33.77	34.50
Ultimate Rejection	dB	40	48	-
Temperature Coefficient	ppm/°C	-	-86	-

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.

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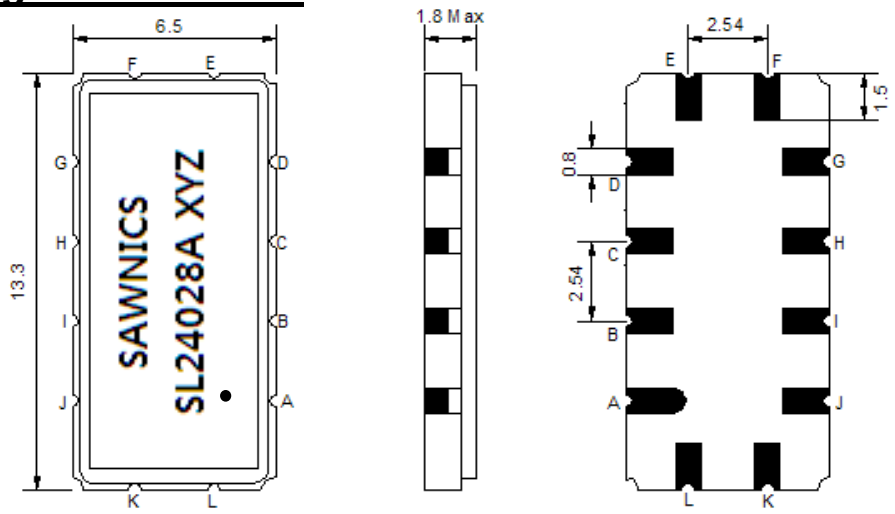
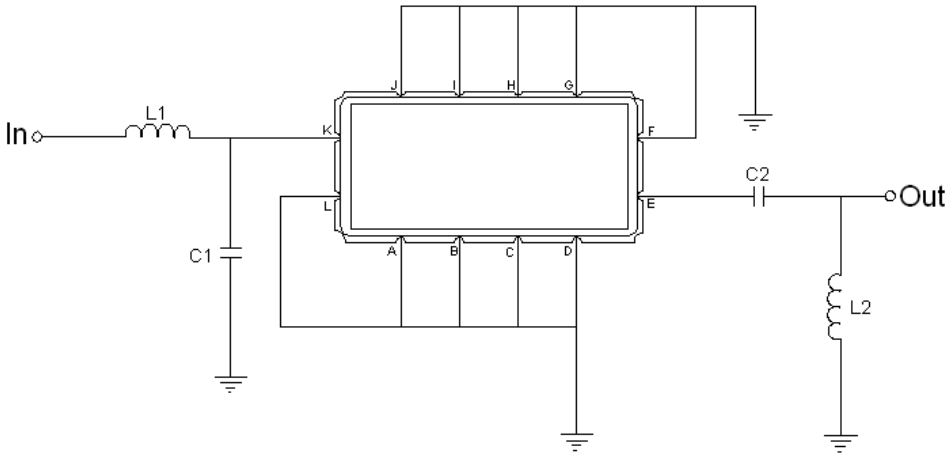
❒ Package Dimensions



① SAWNICS: Brand
② SL24028A: 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, J, L	Ground
K	Input
E	Output

❒ Testing Environment

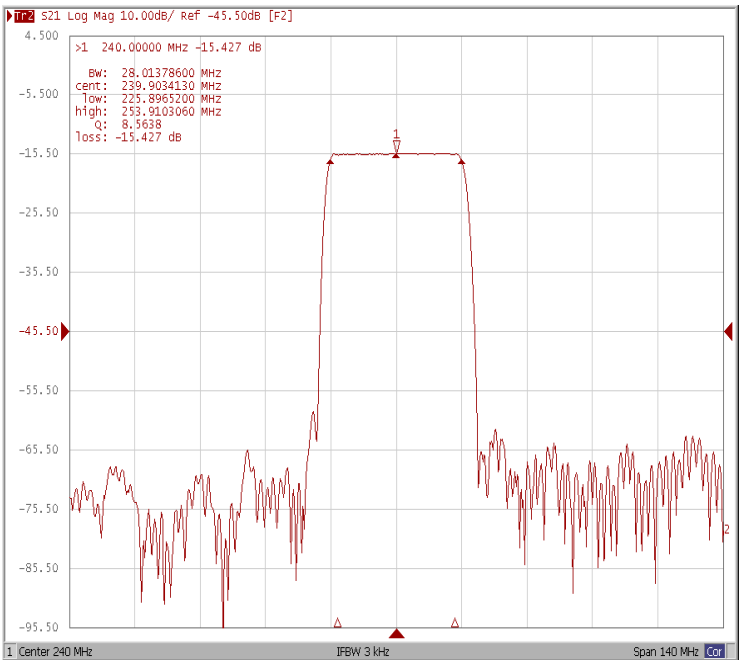


Test Fixture & Values	
Input	L1=10nH, C1=9pF
Output	L2=15nH, C2=56pF
Source/Load Impedance	50 Ω

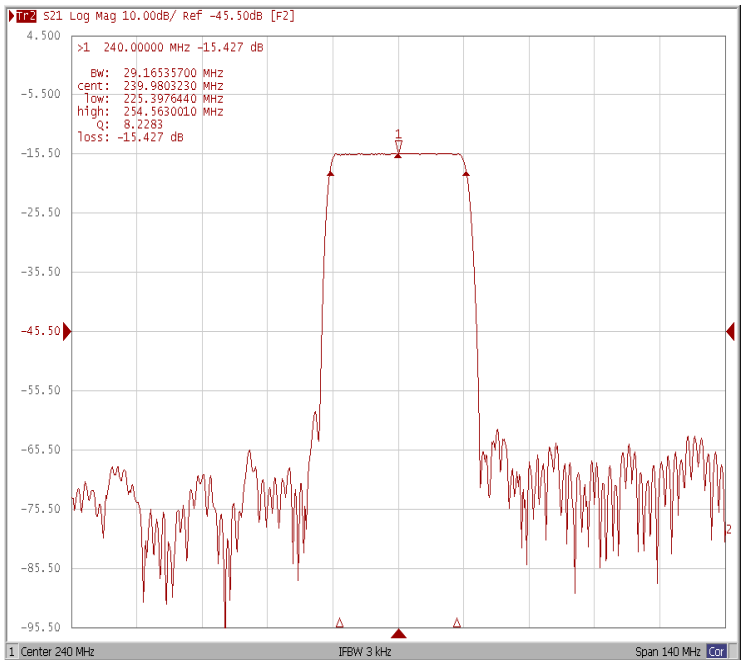
❒ Frequency Characteristics

Frequency Response

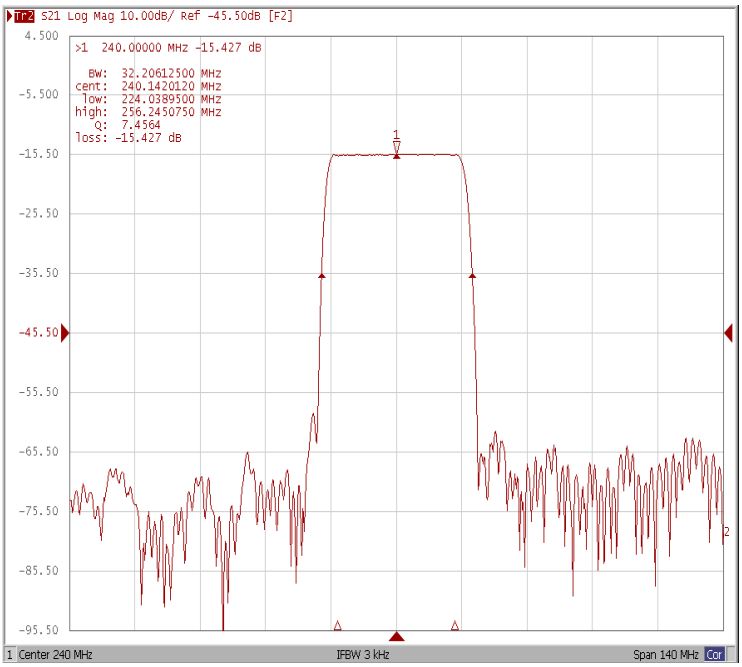
Bandwidth at –1.0 dB



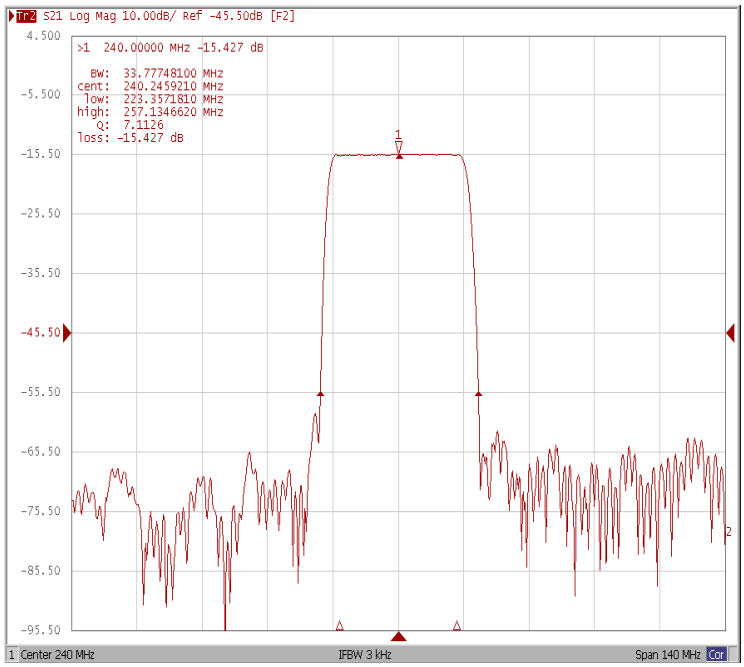
Bandwidth at –3.0 dB



Bandwidth at –20.0 dB



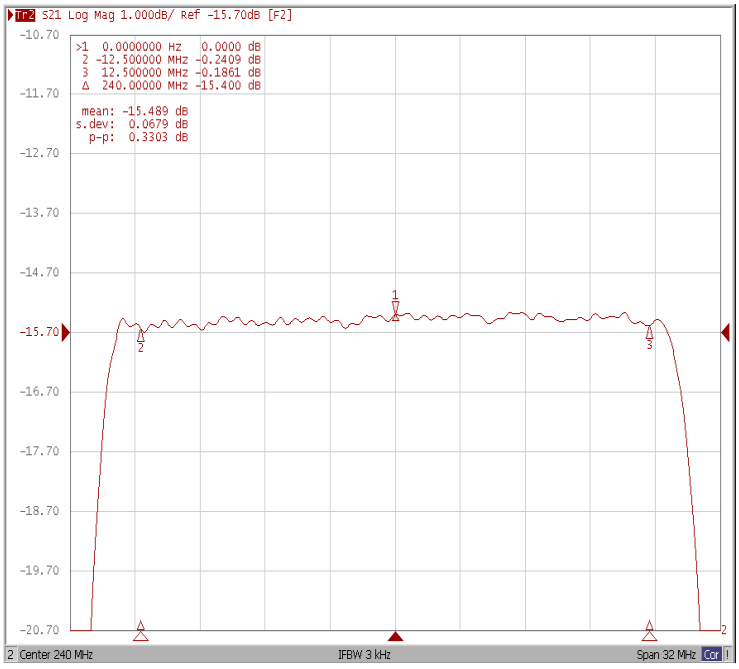
Bandwidth at –40.0 dB



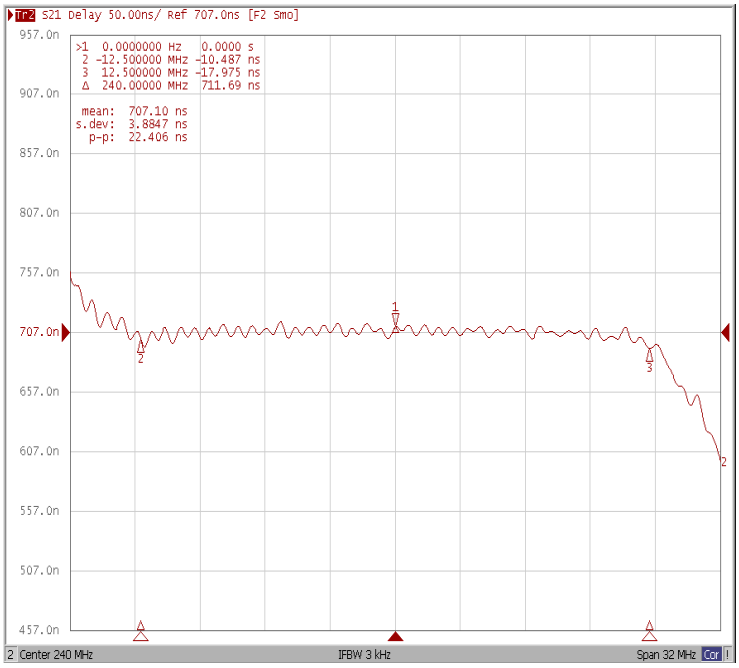
❒ Frequency Characteristics

Frequency Response

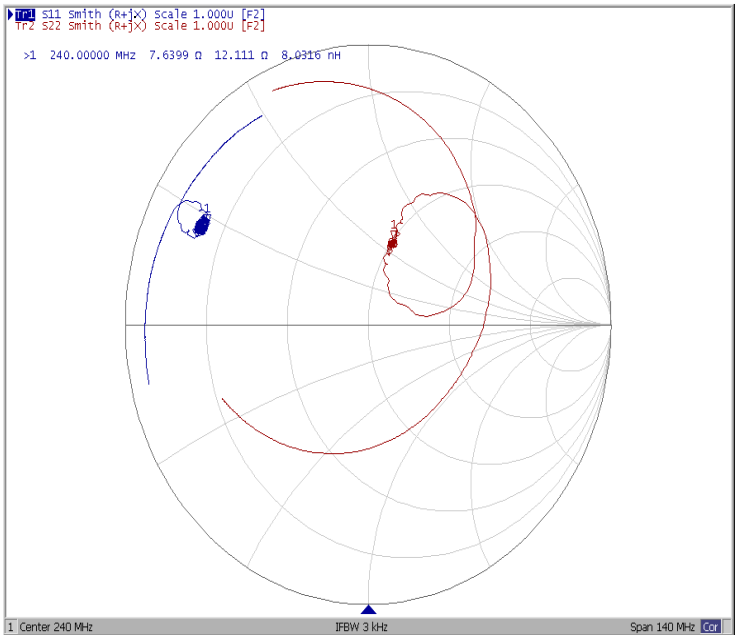
Ripple Variation Fo±12.5MHz



Group Delay Variation Fo±12.5MHz



Smith Chart



SWR