



Oscilent Corporation

PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
862-SL120.0M-A	120MHz IF SAW Bandpass Filter

Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
- o Electrical Specification
- o Frequency Response

Notes

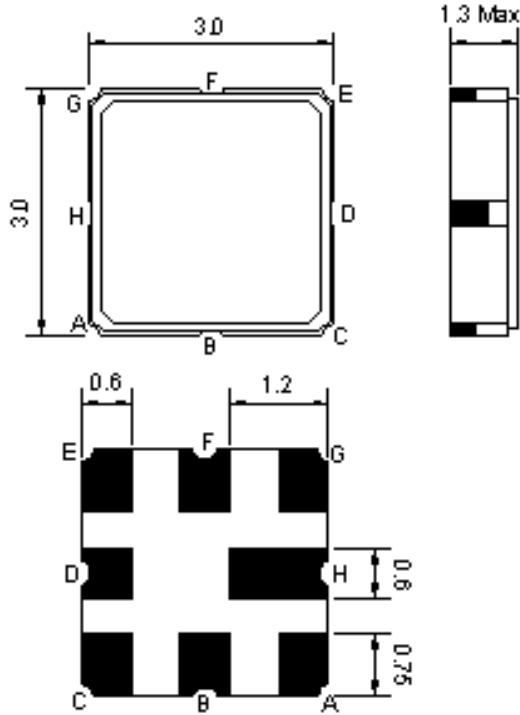
- o Electrostatic Sensitive Device (ESD) 
- o Avoid excessive ultrasonic exposure
- o Solderability compatible with JEDEC J-STD-020C Pb-free process, 260°C peak reflow temperature
- o This product complies with EU directive 2002/95/EC (RoHS compliance)



Oscilent Corporation
Telephone: 1.949.252.0522
Fax: 1.949.252.0522
Email: sales@oscilent.com



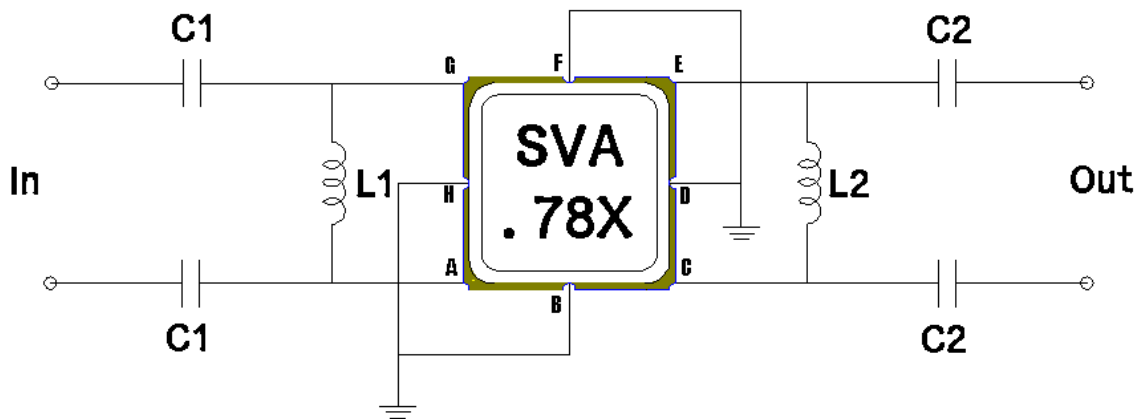
Mechanical Dimensions (mm)



Pin Description	
B, D, F, H	Ground
A, G	In
C, E	Out

Test Circuit

Matching Network for 600Ω/400Ω Balanced Configuration



Test Fixture & Values	
Input	L1=82+47 nH, C1=43 pF
Output	L2=180 nH, C2=15 pF
Source/Load Impedance	600/400 Ω



Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	85
Storage Temperature Range	°C	-40	-	105
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	20
Source Impedance (single ended) ⁽¹⁾	Ω	-	600	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	400	-

Notes: With Matching Network (Ref. Testing Environment Circuit as shown above).

Those impedances could be modified with different impedance values and/or structures, if necessary.

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	120.0	-
Insertion Loss at Fo	dB	-	8.0	9.0
Amplitude Ripple (Fo ± 0.5 MHz)	dB _{p-p}	-	0.5	1.5
Phase Linearity (Fo±0.5MHz)	deg RMS	-	0.6	2.5
Group Delay Variation (Fo ± 0.5 MHz)	ns	-	25	100
Absolute Delay at Fo	μs	-	0.27	-
Temperature Coefficient	ppm/°C	-	-23	-
Bandwidth at -3.0 dB	MHz	-	4.0	-
Template on the amplitude, reference is minimum insertion loss				
At Fo±3.95MHz	dB	15	18	
In Fo -10MHz±0.63MHz	dB	30	35	



Frequency Response

