



Oscilent Corporation

# PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL95.0M-15	95.0MHz IF SAW Filter 14.2MHz Bandwidth

## 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)



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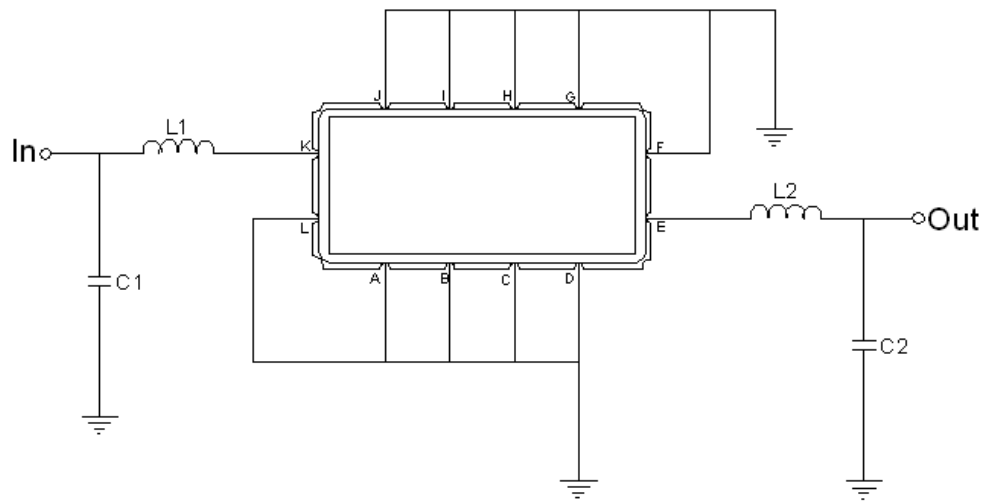


## Mechanical Dimensions (mm)



Pin Description	
A, B, C, D, F, G, H, I, J, L	Ground
K	Input
E	Output

## Test Circuit



Test Fixture & Values	
Input	L1=120nH, C1=51pF
Output	L2=33nH
Source/Load Impedance	50 Ω

**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) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-

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	-	95.0	-
Insertion Loss at Fo	dB	-	12.5	15.0
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple Variation	dBp-p	-	0.50	1.0
Group Delay Variation	nsec	-	50	120
Absolute Delay at Fo	µsec	-	1.15	-
Bandwidth at -1.0 dB	MHz	-	14.0	-
Bandwidth at -3.0 dB	MHz	14.2	14.5	-
Bandwidth at -5.0 dB	MHz	-	14.9	15.2
Bandwidth at -30.0 dB	MHz	-	16.9	17.5
Bandwidth at -40.0 dB	MHz	-	17.2	18.5
Relative Attenuation	dB	40	48	-
Ambient Temperature	°C	-	25	-



## Frequency Response

