



Oscilent Corporation

# PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL70.0M-04	70.0 MHz IF SAW Filter 3.65 MHz 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)



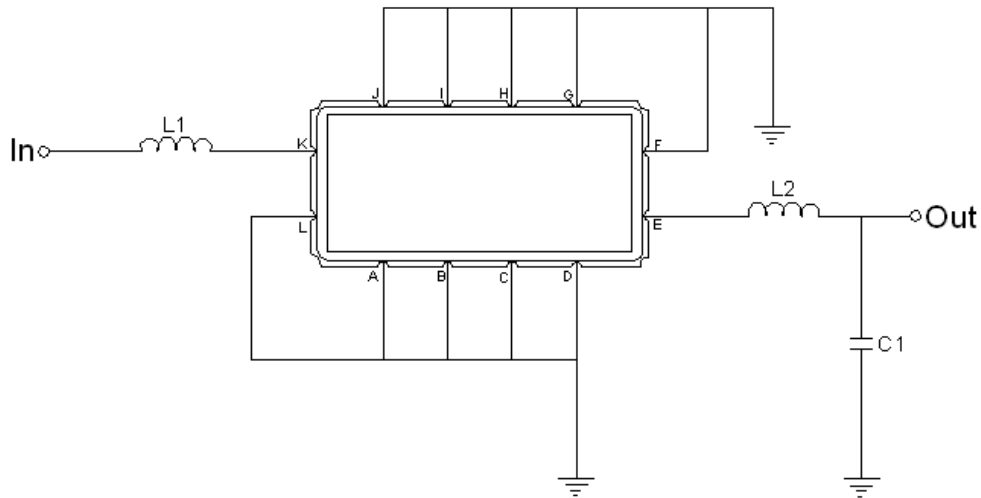


## Mechanical Dimensions (mm)



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

## Test Circuit



Test Fixture & Values	
Input	L1=220nH Q > 40
Output	L2=100nH Q > 40, C2=22pF
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	69.8	70.0	70.2
Insertion Loss at Fo	dB	-	8.5	9.5
Temperature Coefficient	ppm/°C	-	-84	-
Amplitude Ripple Variation at fo ±1.5 MHz	dB <sub>p-p</sub>	-	0.8	1.0
Group Delay Variation at fo ±1.5 MHz	nsec	-	170	220
Absolute Delay at Fo	µsec	-	1.0	-
IN/OUT Return Loss at Fo	dB	-	-	-
Bandwidth at -1.0 dB	MHz	3.4	3.65	-
Bandwidth at -3.0 dB	MHz	4.0	4.45	-
Bandwidth at -40.0 dB	MHz	-	7.18	8.0
Relative Attenuation:				
10 ~ 64.5 MHz	dB	40	45	-
74 ~ 140 MHz	dB	40	43	-



### Frequency Response

