



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL125.0M-28	Low-Loss 125MHz IF SAW Filter 28.5MHz Bandwidth

### Specification Contents

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

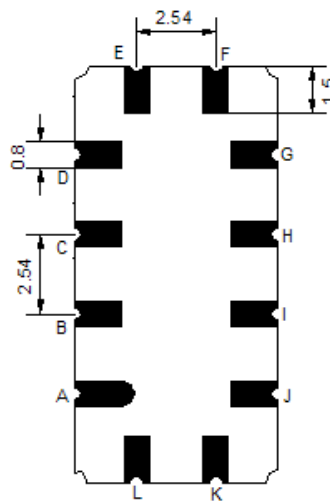
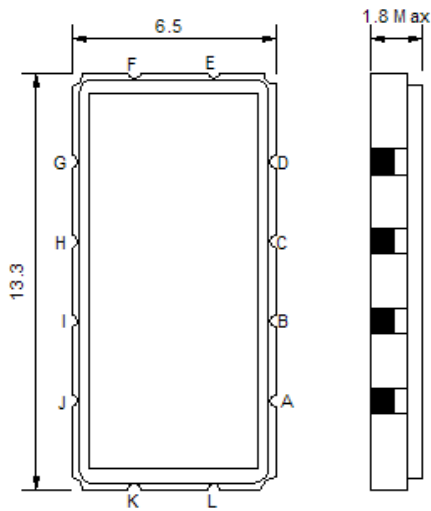
### Notes

- 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)



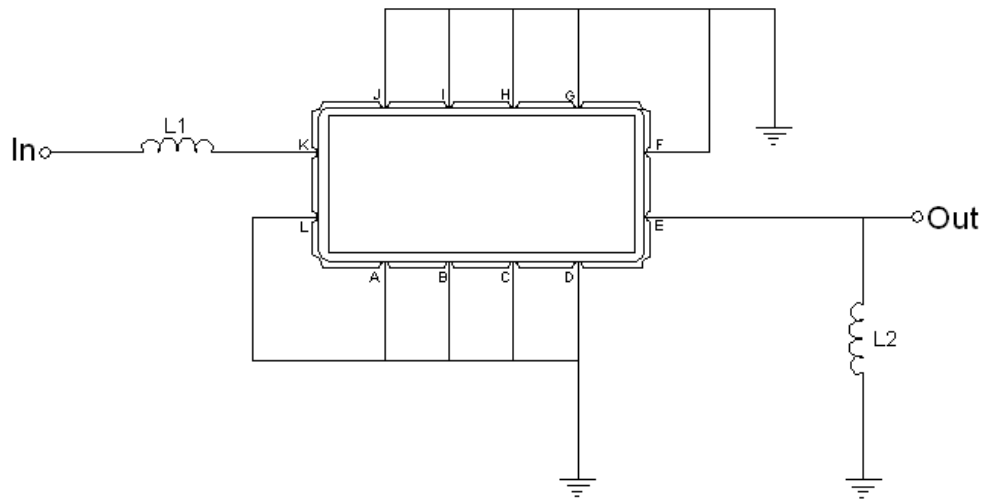


## Mechanical Dimensions (mm)



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

## Test Circuit



Test Fixture & Values	
Input	L1=33nH Q>40
Output	L2=33nH Q>40
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	-	125.0	-
Insertion Loss at Fo	dB	-	15.5	17.0
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple within fo ±13.0 MHz	dB <sub>p-p</sub>	-	0.4	1.0
Group Delay Variation within fo ±13.0 MHz	nsec	-	25	50
Absolute Delay at Fo	µsec	-	0.85	-
Bandwidth at -1.0 dB	MHz	27.5	28.5	-
Bandwidth at -3.0 dB	MHz	28.5	29.5	-
Bandwidth at -40.0 dB	MHz	-	33.3	34.5
Relative Attenuation:				
Lower sidelobe	dB	40	47	-
Upper sidelobe	dB	40	47	-



## Frequency Response

