



REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
805-RF173.15M-A	Wireless, RF SAW Filter

### Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
- o Electrical Specification
- o Frequency Performance
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- o Smith Chart

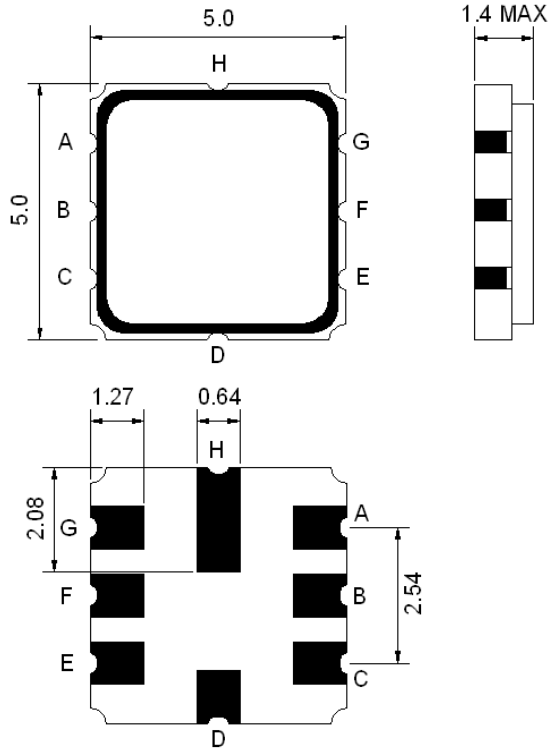
### Notes

- 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)



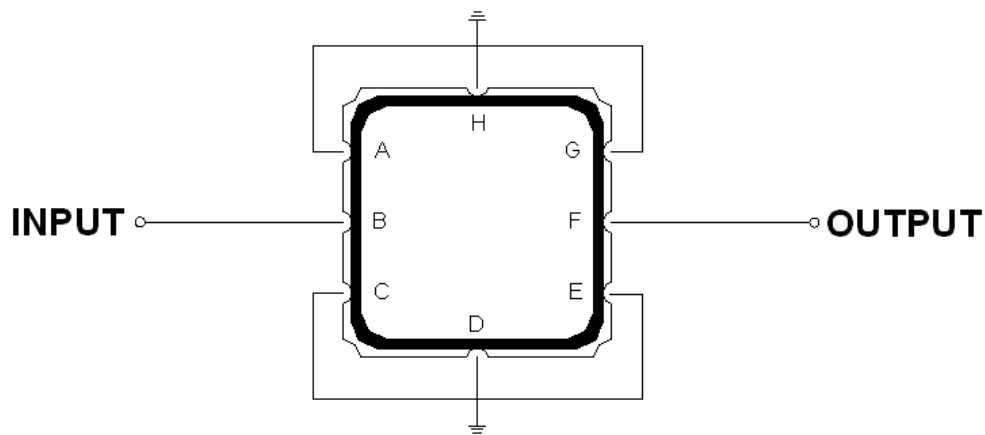


### Mechanical Dimensions (mm)



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

### Test Circuit



Source and Load Impedance: 50  $\Omega$



## Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	13
Source Impedance (single ended) <sup>(1)</sup>	$\Omega//pF$	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	$\Omega//pF$	-	50	-

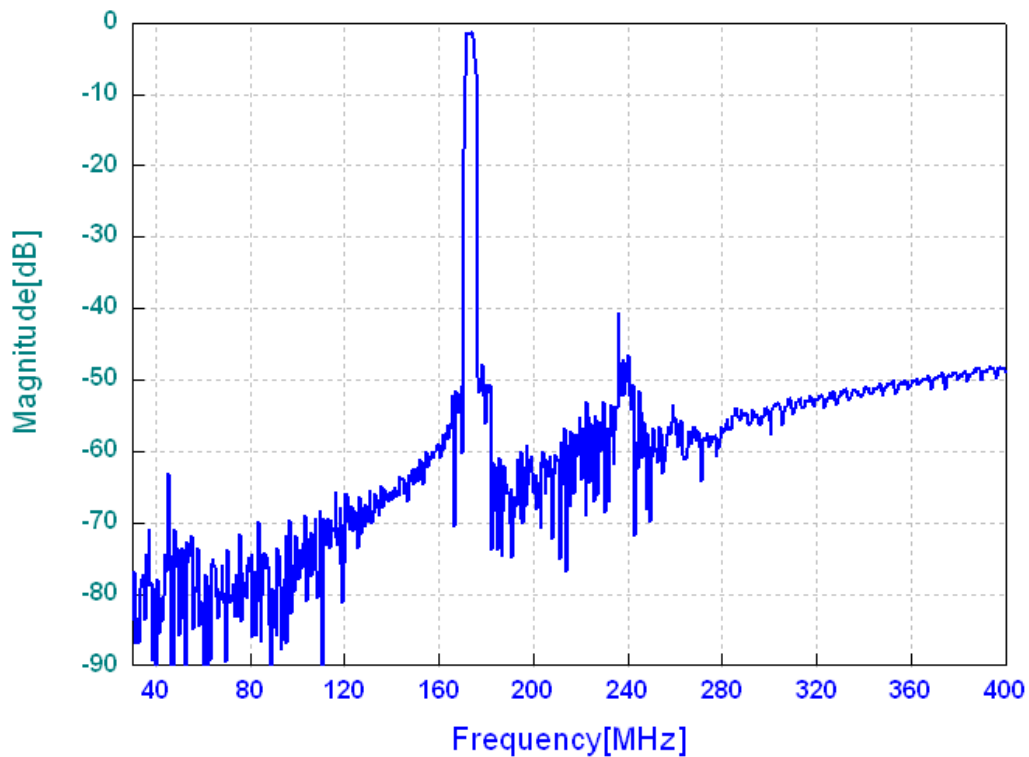
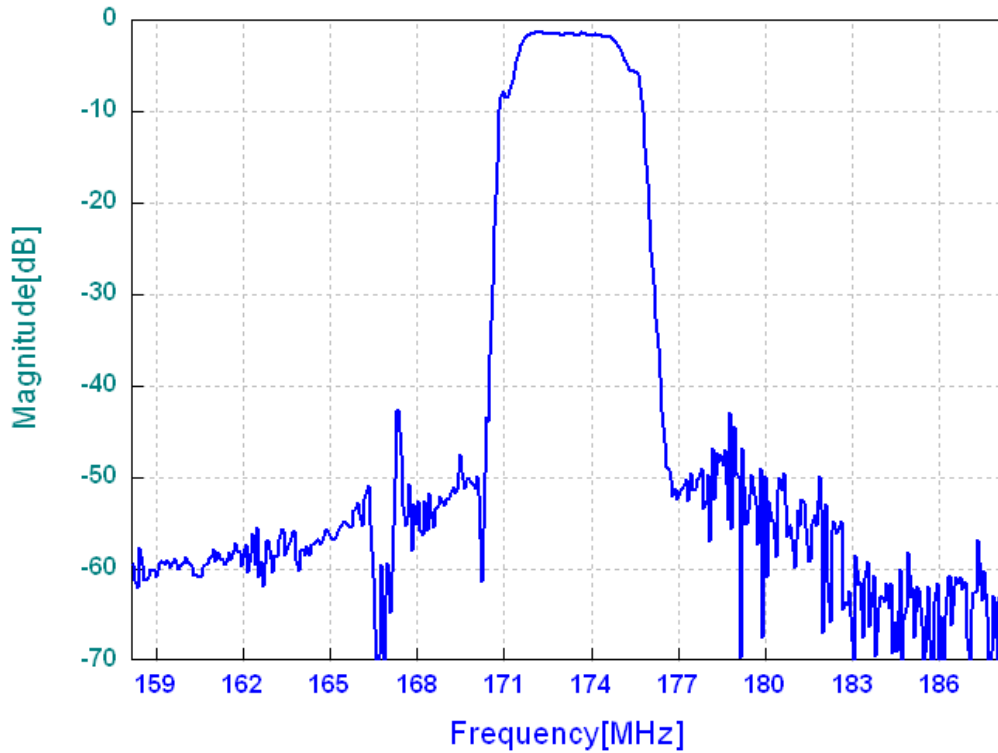
Notes: No Matching Network

## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	173.15	-
Insertion Loss within 173.025~173.275 MHz	dB	-	1.6	2.5
Amplitude Ripple within 173.025~173.275 MHz	dB <sub>p-p</sub>	-	0.2	1.0
Return Loss within 173.025~173.275 MHz	dB	10	13	-
Stop Band Attenuation:				
D.C ~ 163.0 MHz	dB	45	58	-
163.0 ~ 165.0 MHz	dB	40	55	-
165.0 ~ 170.15 MHz	dB	30	40	-
177.15 ~ 182.0 MHz	dB	35	45	-
182.0 ~ 400.0 MHz	dB	35	40	-

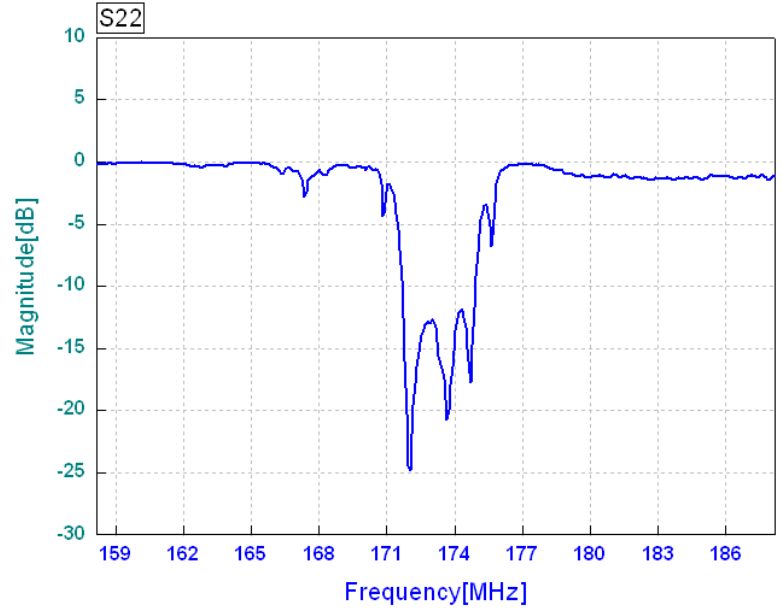
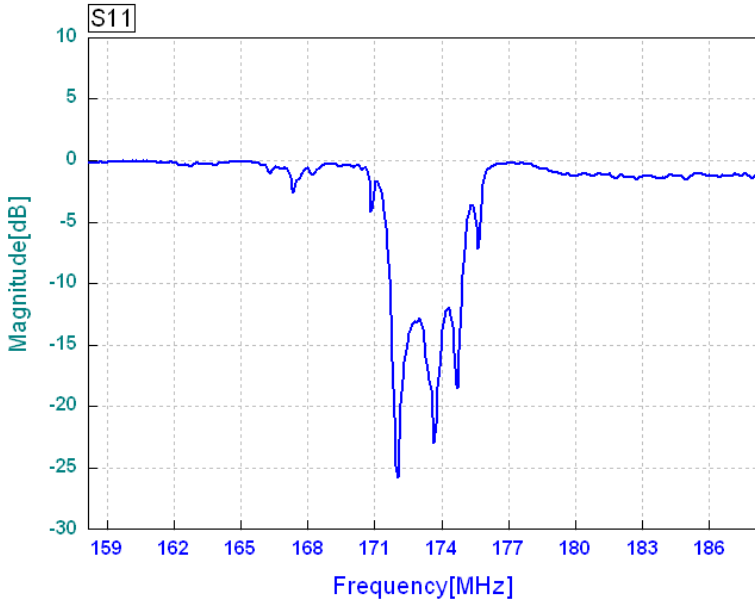


### Frequency Performance





### Return Loss



### Smith Chart

