



# PRODUCT SPECIFICATION

REV A January 2010


Oscilent Controlled Document

Ordering Code / Part Number	Product Description
808-RF813.5M-A	PTT, TX RF SAW Filter

## Specification Contents

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

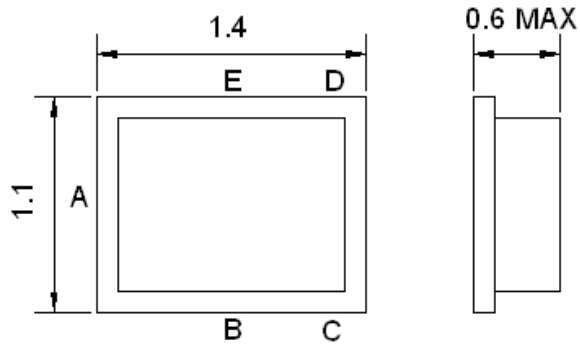
## Notes

- 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)

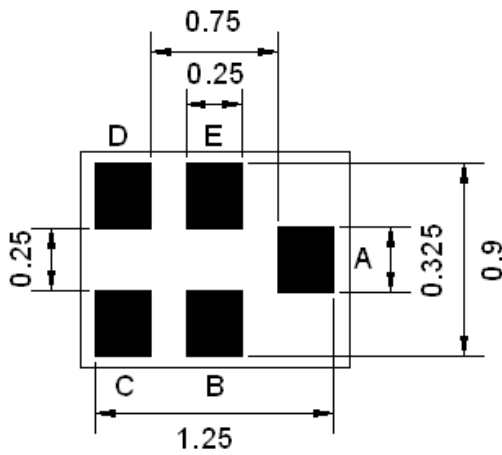




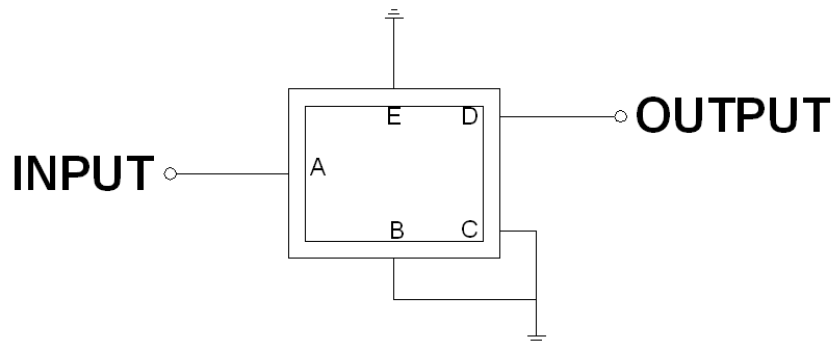
**Mechanical Dimensions (mm)**



Pin Description	
B, C, E	Ground
A	In
D	Out



**Test Circuit**



Source and Load Impedance: 50  $\Omega$



## Maximum Ratings

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

Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

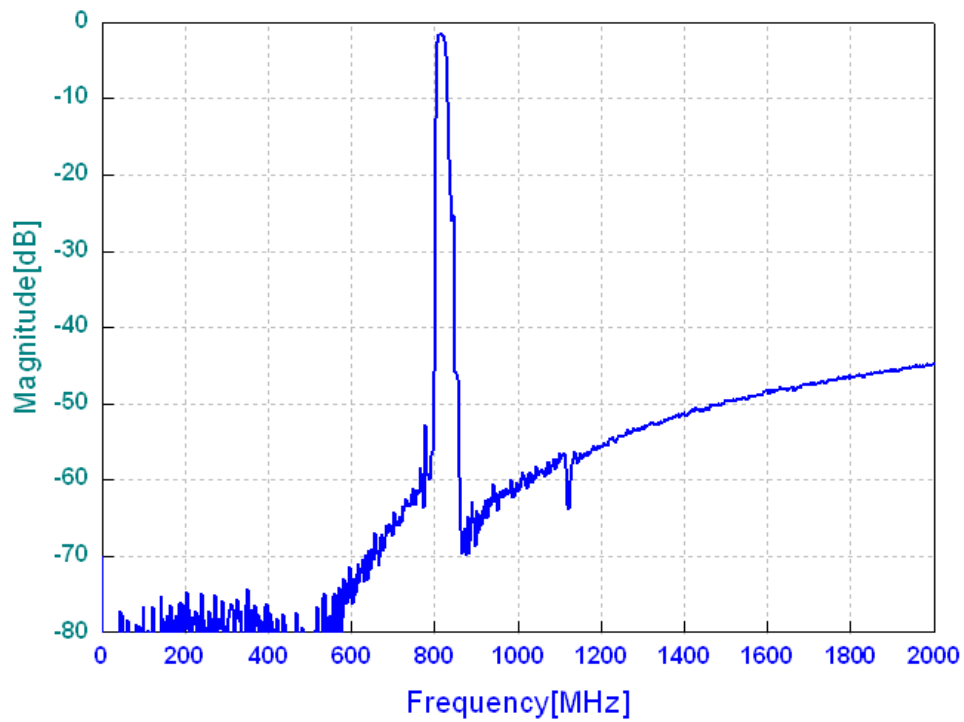
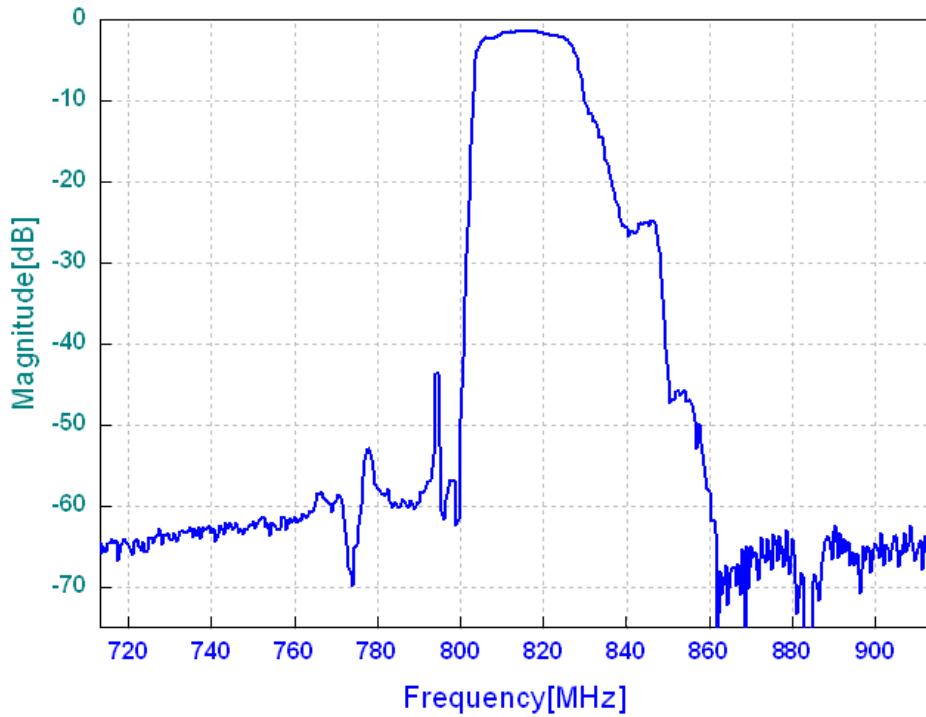
(2) Insertion Loss is including PCB Loss. (PCB Loss, 0.2dB)

## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	813.5	-
Insertion Loss within 806.0 ~ 821.0 MHz	dB	-	2.2	2.5
Amplitude Ripple within 806.0~821.0 MHz	dB <sub>p-p</sub>	-	0.9	1.5
Attenuation:				
D.C ~ 760.0 MHz	dB	50	60	-
760.0 ~ 780.0 MHz	dB	40	52	-
851.0 ~ 866.0 MHz	dB	40	46	-
866.0 ~ 2000.0 MHz	dB	40	45	-
Return Loss within 806.0~821.0 MHz	dB	9	11	-

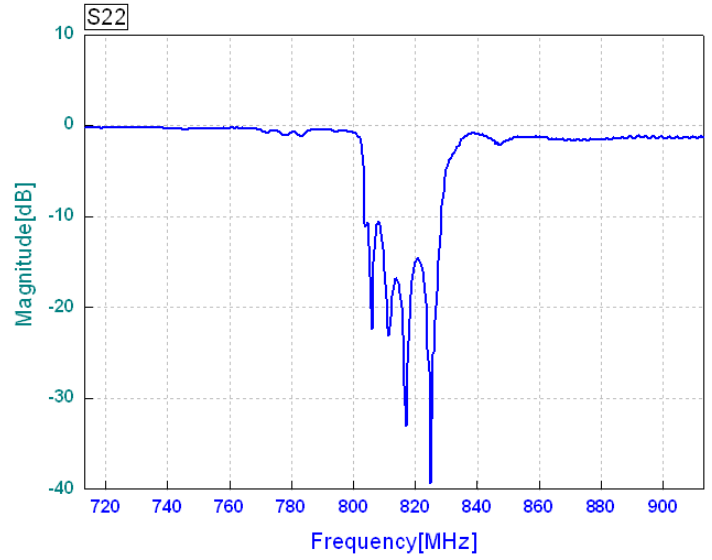
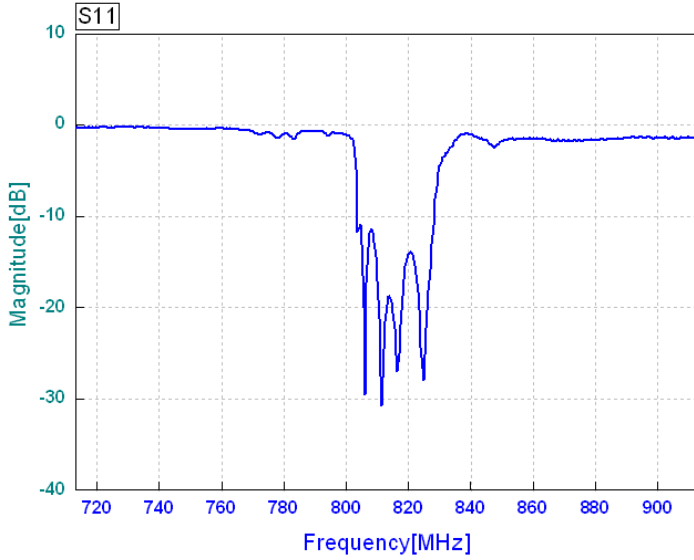


### Frequency Performance





### Return Loss



### Smith Chart

