



# PRODUCT SPECIFICATION

REV A January 2010


Oscilent Controlled Document

Ordering Code / Part Number	Product Description
808-RF781.5M-A	LTE, TX Balanced 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

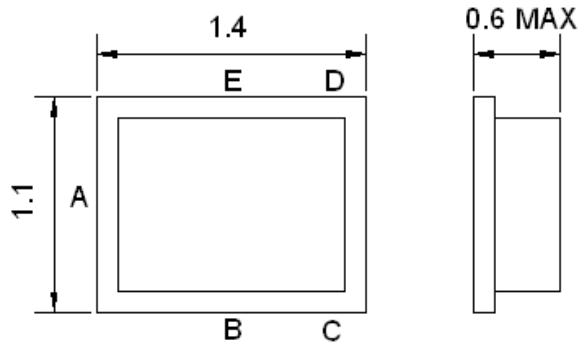
## Notes

- 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)

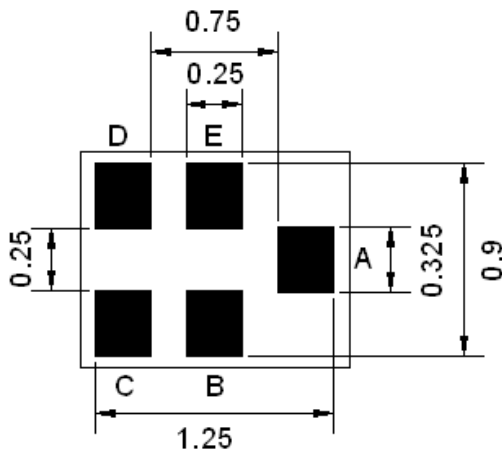




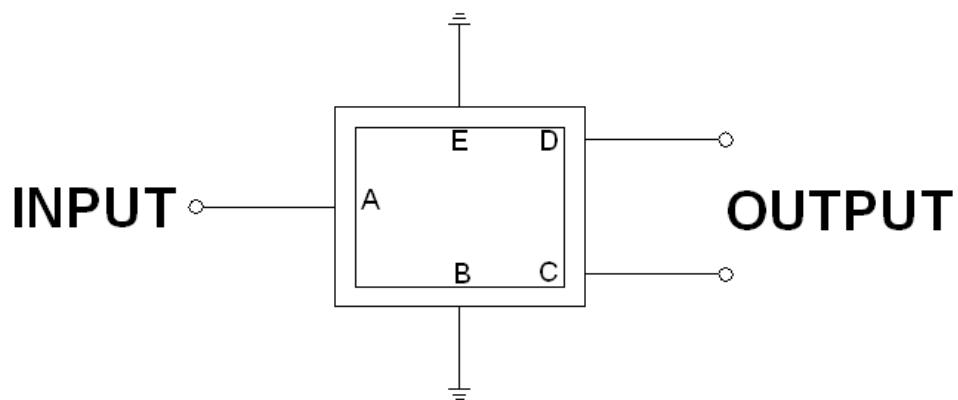
## Mechanical Dimensions (mm)



Pin Description	
B, E	Ground
A	In
C, D	Balance Output



## 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	-	-	25
Source Impedance (single ended)	$\Omega$	-	50	-
Load Impedance (balanced ended)	$\Omega$	-	100	-

Notes: (1) No Matching Network (Ref. Testing Environment Circuit as shown above).

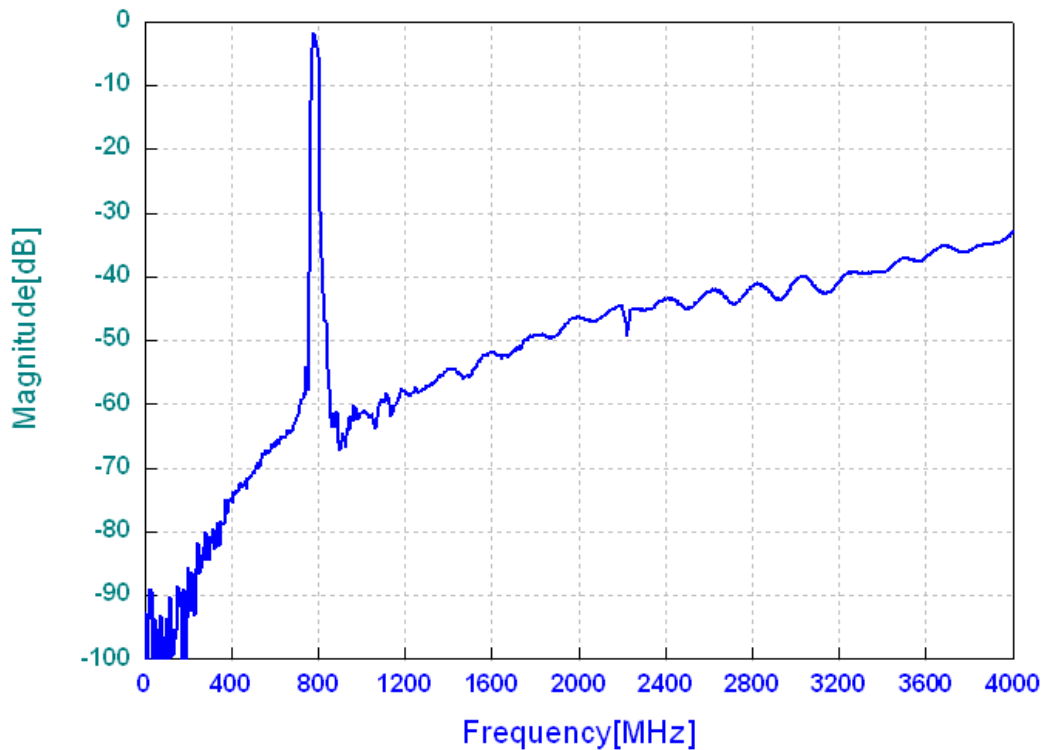
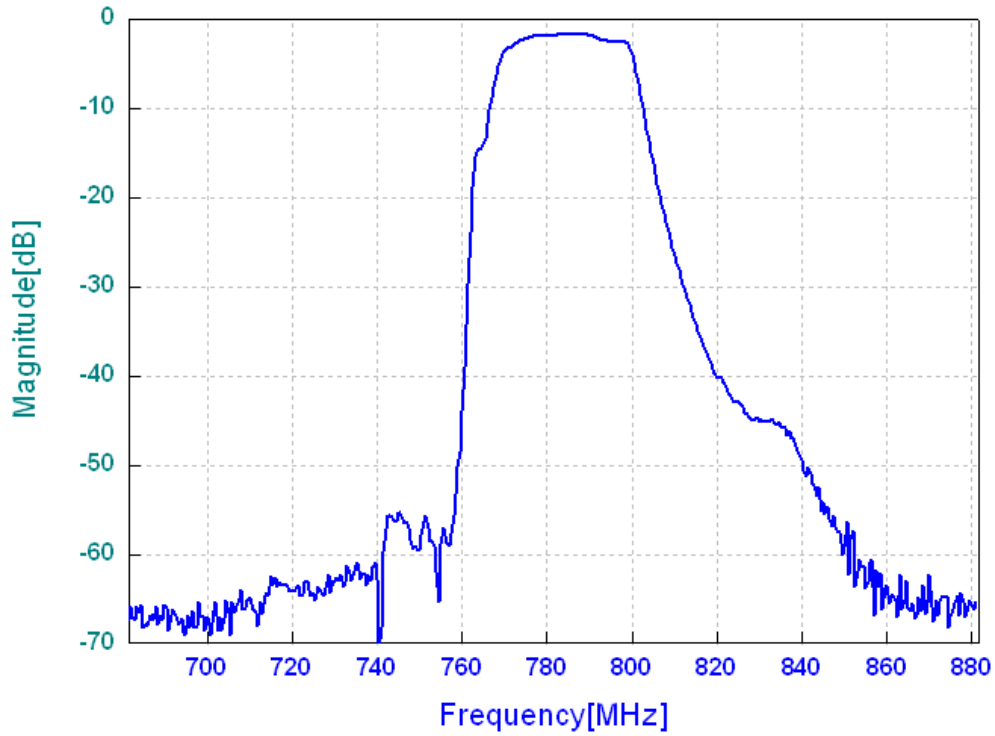
(2) Insertion Loss is including PCB Loss. (PCB Loss, 0.2dB)

**Electrical Specification**

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	781.5	-
Insertion Loss within 776.0 ~ 787.0 MHz	dB	-	2.3	2.7
Amplitude Ripple within 776.0~787.0MHz	dB <sub>p-p</sub>	-	0.3	1.0
Attenuation:				
746.0 ~ 757.0 MHz	dB	45	55	-
869.0 ~ 894.0 MHz	dB	50	60	-
1552.0 ~ 1574.0 MHz	dB	45	55	-
1574.42 ~ 1576.42 MHz	dB	45	55	-
1805.0 ~ 1880.0 MHz	dB	40	50	-
1930.0 ~ 2000.0 MHz	dB	40	48	-
2328.0 ~ 2361.0 MHz	dB	38	47	-
3104.0 ~ 3148.0 MHz	dB	30	40	-
VSWR within 776.0~787.0 MHz	-	-	1.7	2.5



## Frequency Performance



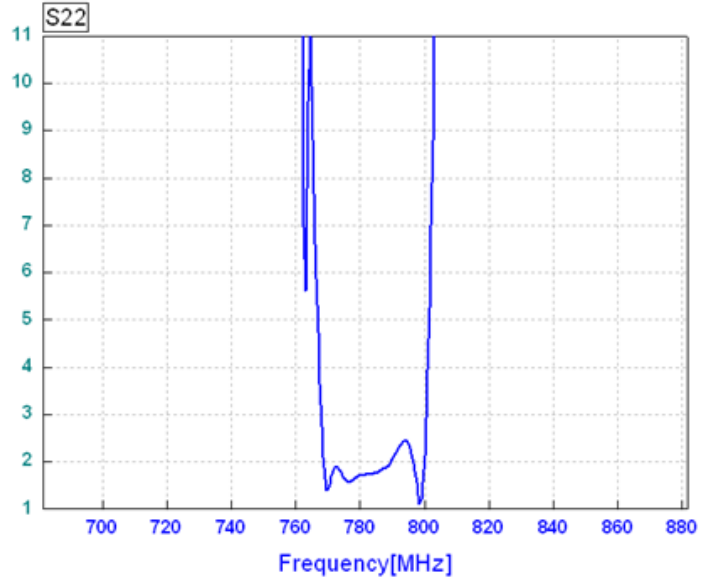
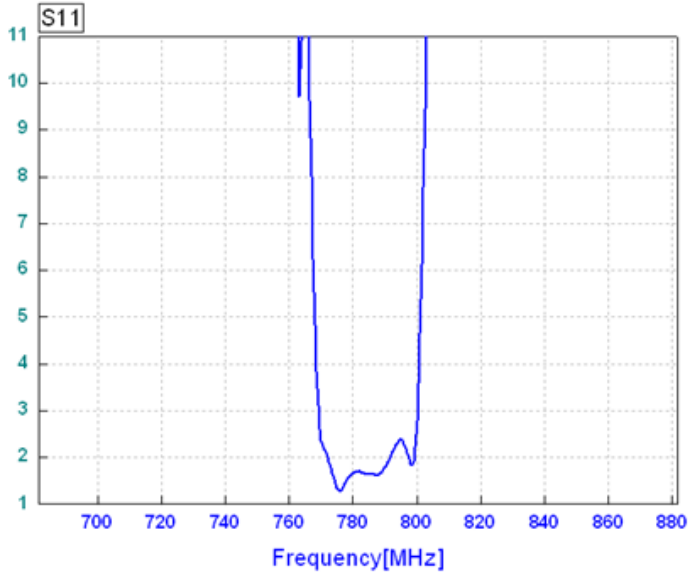


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### VSWR



### Smith Chart

