



# PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
808-RF1842.5M-E	DCS, RX-RF SAW Filter

## Specification Contents

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

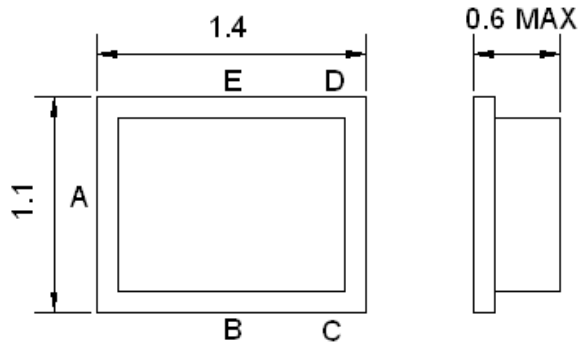
## Notes

- 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)

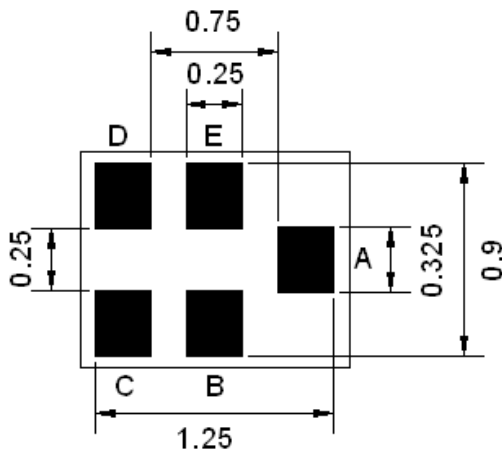




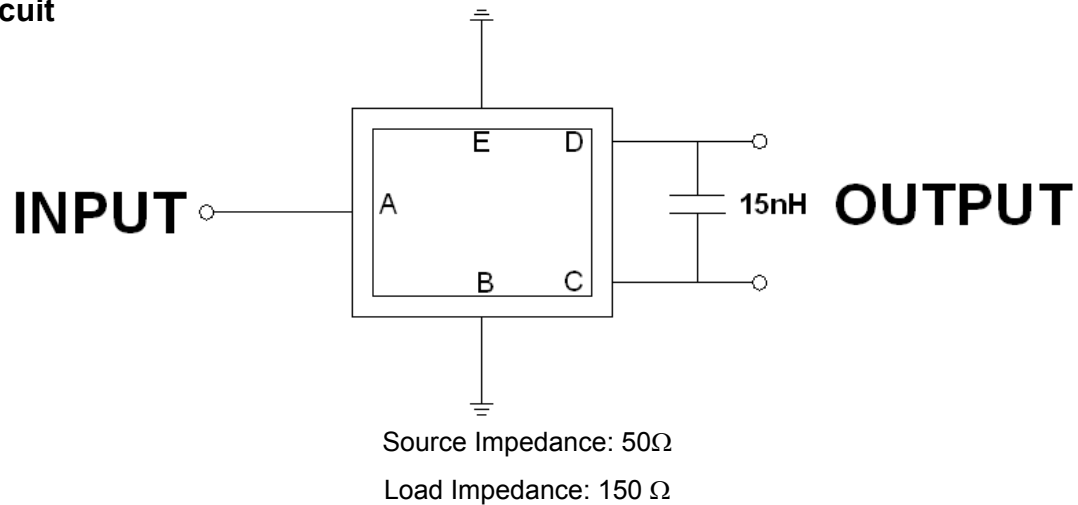
## Mechanical Dimensions (mm)



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



## Test Circuit



**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-10	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (balance ended) <sup>(1)</sup>	Ω	-	150	-

Notes: (1) With Matching Network (Ref. Testing Environment Circuit as shown above)

**Electrical Specification**

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1842.5	-
Insertion Loss within 1805.0~1880.0MHz	dB	-	1.4	2.4
Amplitude Ripple within 1805.0~1880.0MHz	dB <sub>p-p</sub>	-	0.5	1.8
Amplitude Imbalance within 1805.0~1880.0MHz	dB	-2.0	-0.5~1.5	2.0
Phase Imbalance within 1805.0~1880.0MHz	dgree	-12	-3.4~0.5	12
Attenuation:				
D.C ~ 1300.0 MHz	dB	40	47	-
1300.0 ~ 1705.0 MHz	dB	25	36	-
1705.0 ~ 1785.0 MHz	dB	10	17	-
1920.0 ~ 1980.0 MHz	dB	16	19	-
1980.0 ~ 3000.0 MHz	dB	18	27	-
3000.0 ~ 5000.0 MHz	dB	35	42	-
5000.0 ~ 6000.0 MHz	dB	32	36	-
VSWR within 1805.0~1880.0MHz	-	-	1.8	2.3



## Frequency Performance

