PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
802-RF1842.5M-A	PCN, RF SAW Filter

Specification Contents

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

Notes

- Electrostatic Sensitive Device (ESD)
- Avoid excessive ultrasonic exposure
- Solderability compatible with JEDEC J-STD-020C Pb-free process, 260°C peak reflow temperature
- This product complies with EU directive 2002/95/EC (RoHS compliance)

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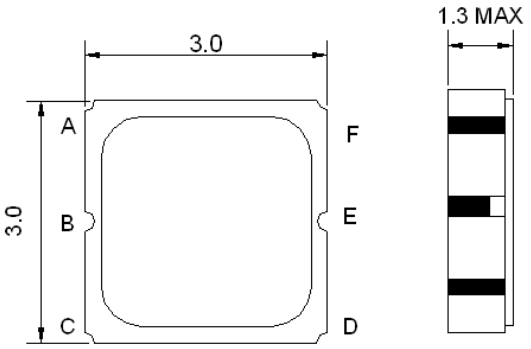
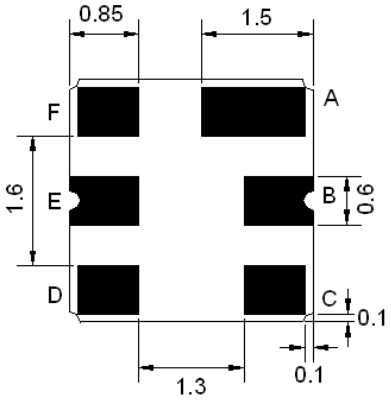
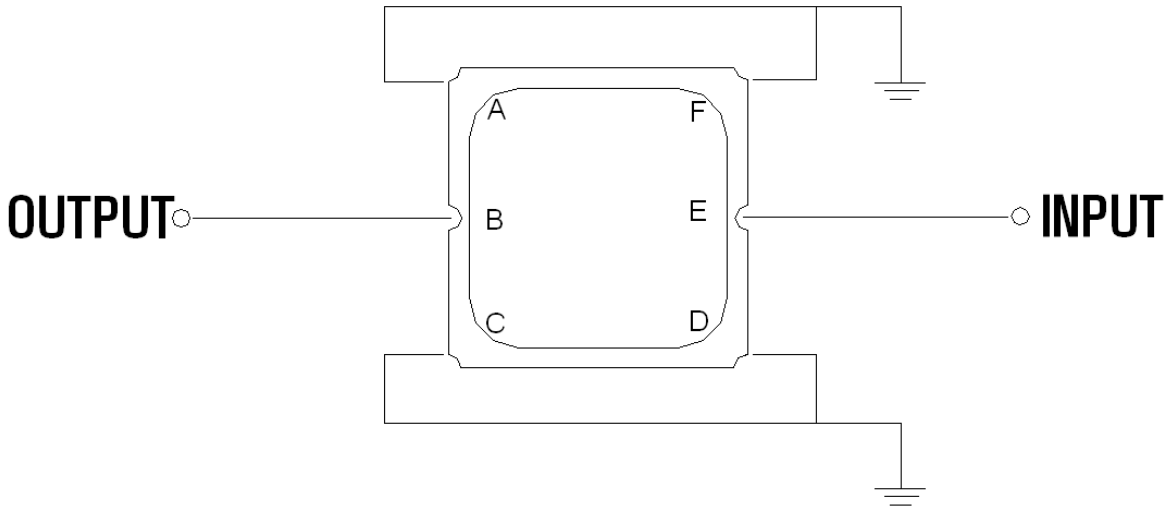
Mechanical Dimensions (mm)



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



Test Circuit



Source and Load Impedance: 50 Ω

Maximum Ratings

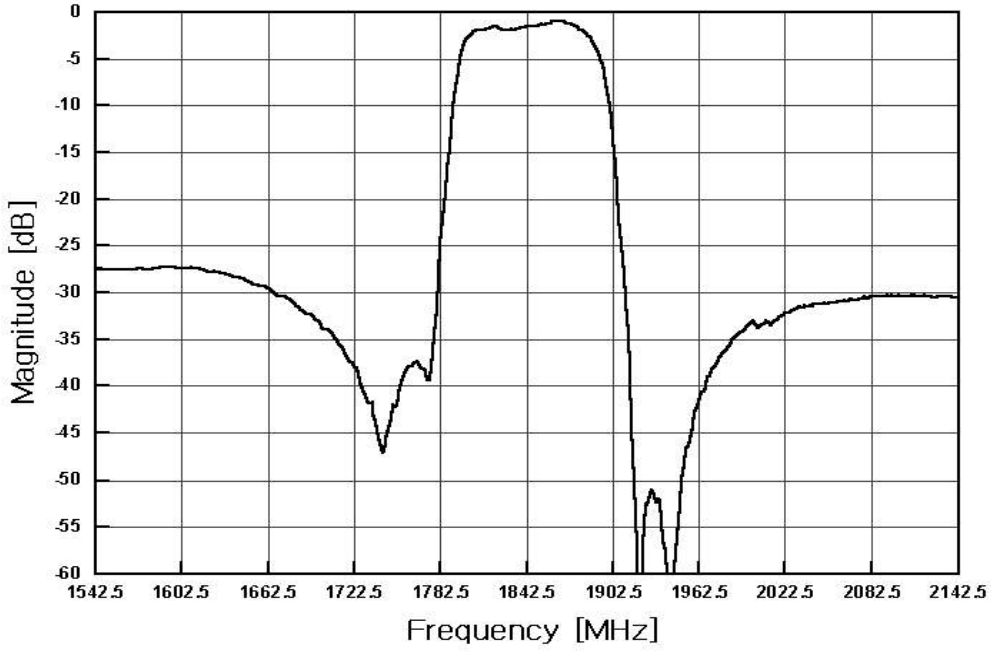
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-

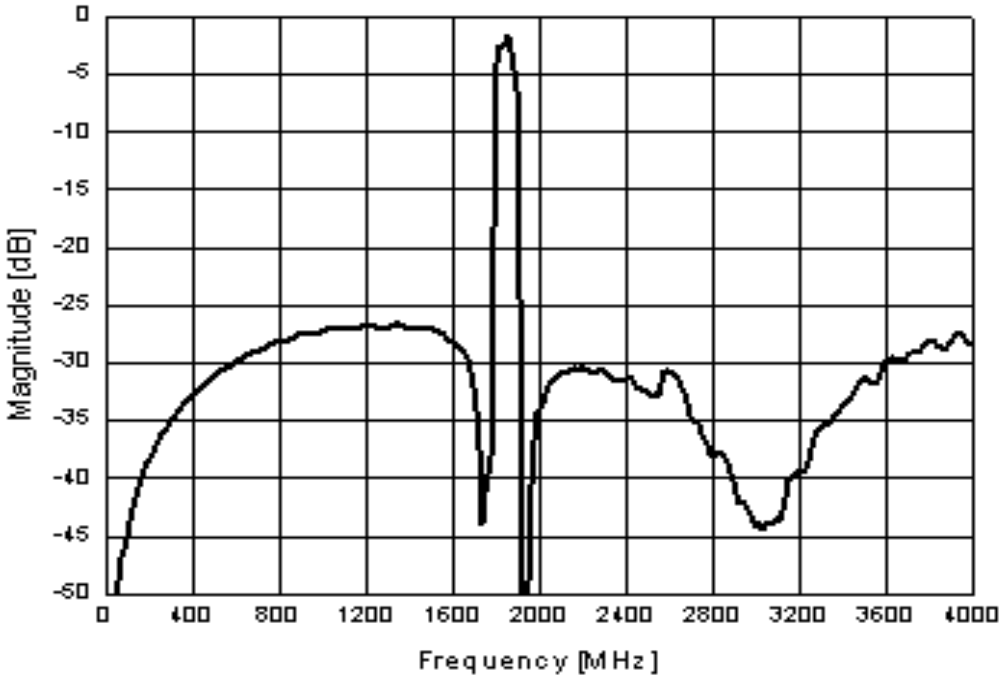
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

Electrical Specification

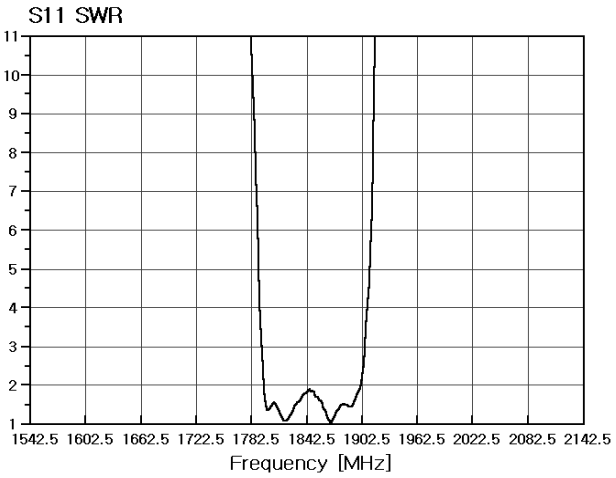
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1842.5	-
Insertion Loss within 1805~1880 MHz	dB	-	2.3	4.0
Amplitude Ripple within 1805~1880 MHz	dB_{p-p}	-	1.3	2.5
Attenuation:				
D.C ~ 1500 MHz	dB	20	25	-
1600 ~ 1710 MHz	dB	22	27	-
1710 ~ 1785 MHz	dB	10	18	-
1920 ~ 3120 MHz	dB	25	30	-
3120 ~ 4000 MHz	dB	17	26	-
VSWR within 1805~1880 MHz	-	-	2.0	2.5

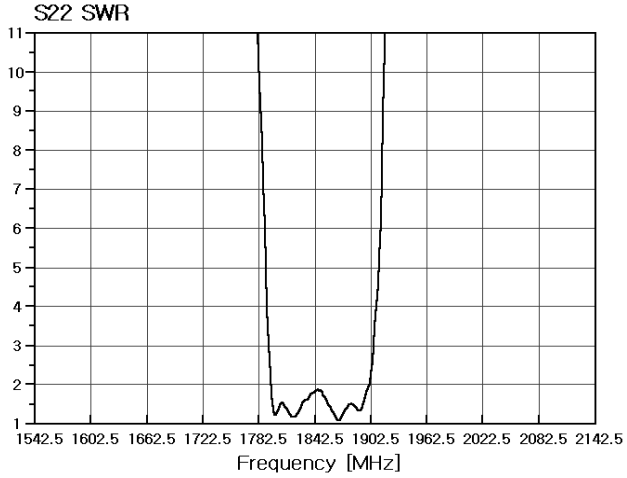
Frequency Performance





VSWR





Smith Chart