



PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
861-RF881.5M-F	CDMA, Balanced RF-Rx SAW Filter

Specification Contents

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

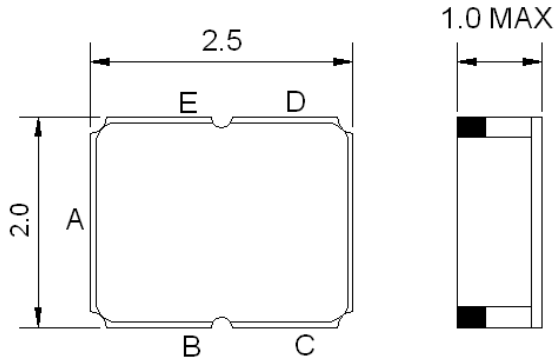
Notes

- 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)

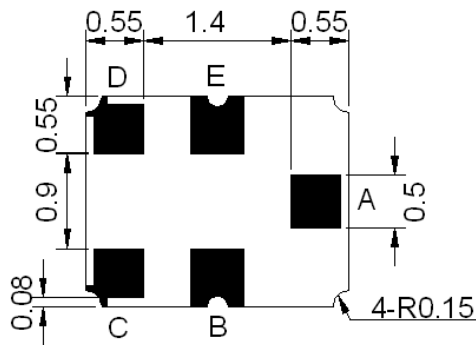




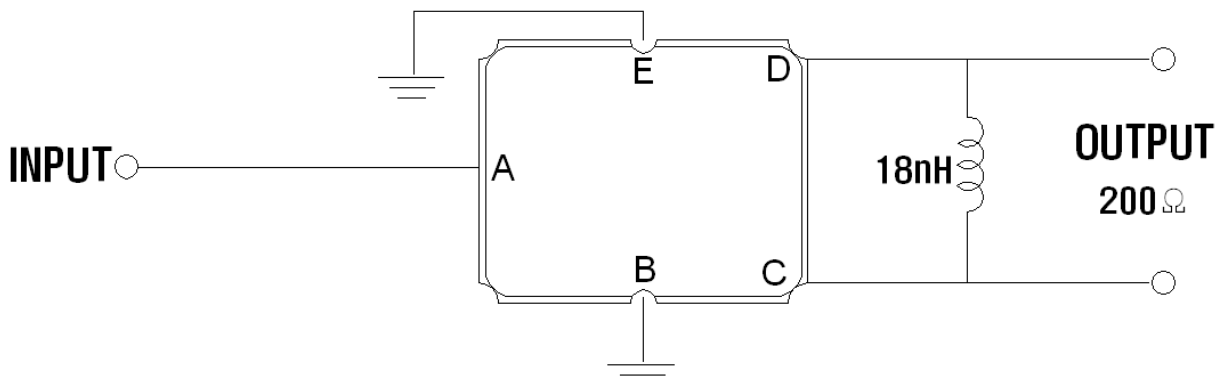
Mechanical Dimensions (mm)



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



Test Circuit





Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power				
Source Impedance 50Ω CDMA Signal	dBm	-	-	0
Source Impedance (single ended)	Ω	-	50	-
Load Impedance (balanced ended)	Ω	-	200/18nH	-

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

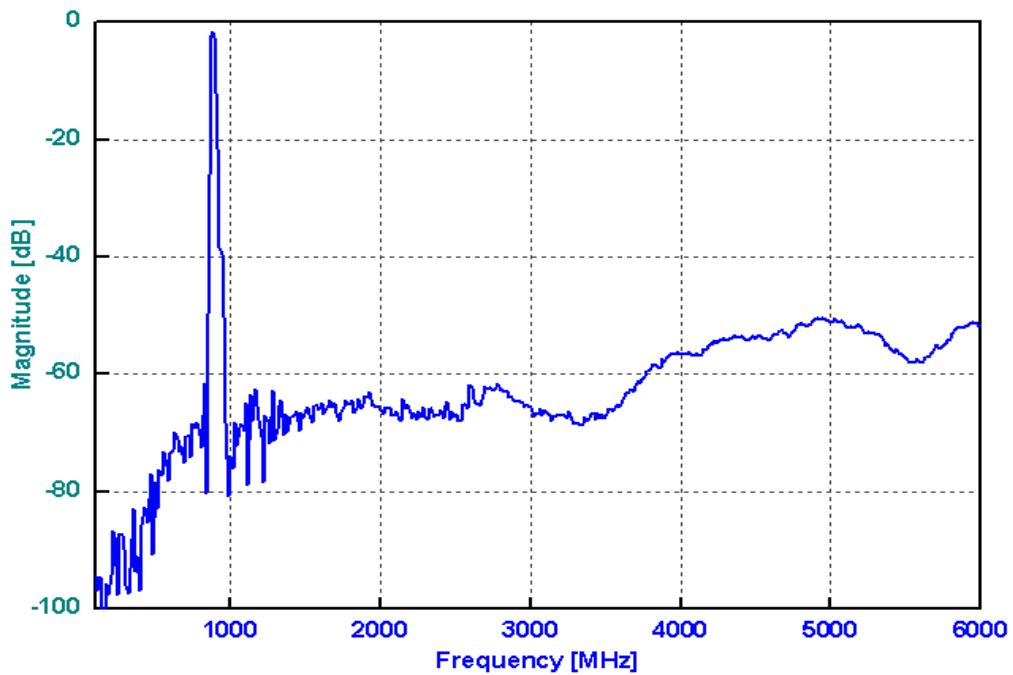
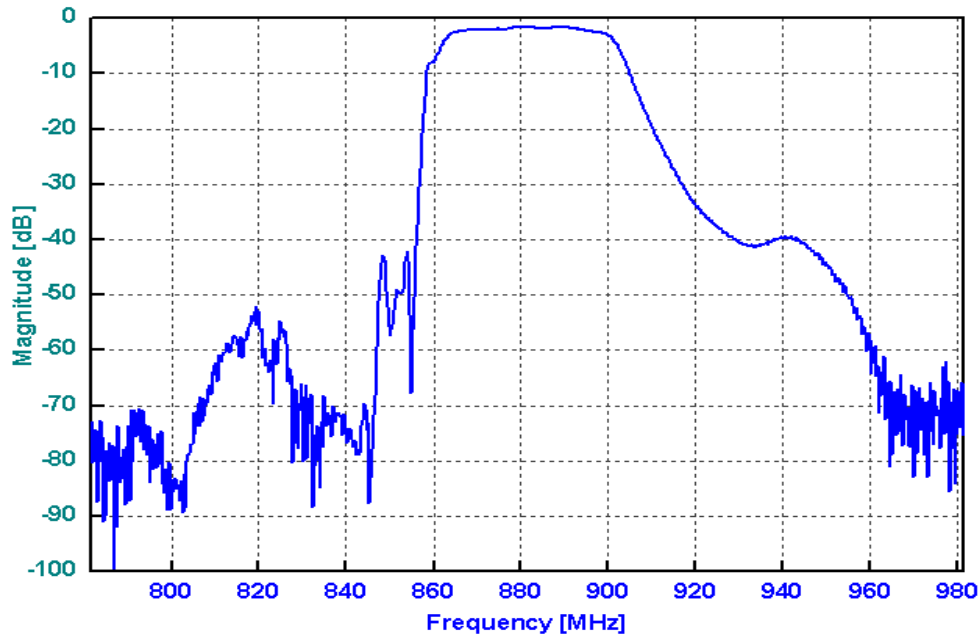
(2) Insertion Loss is including PCB Loss. (PCB Loss, 0.2dB)

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	881.5	-
Insertion Loss within 869~894 MHz	dB	-	2.3	3.0
Attenuation:				
100 ~ 824 MHz	dB	40	55	-
824 ~ 849 MHz	dB	35	44	-
914 ~ 970 MHz	dB	20	25	-
970 ~ 3000 MHz	dB	40	55	-
3000 ~ 6000 MHz	dB	35	50	-
VSWR within 869~894 MHz	-	-	1.7	2.2
Output Amplitude Balance ($ S_{31}/S_{21} $)	dB	-1.0	±0.3	1.0
Output Phase Balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$)	degree	-10	±0.9	10

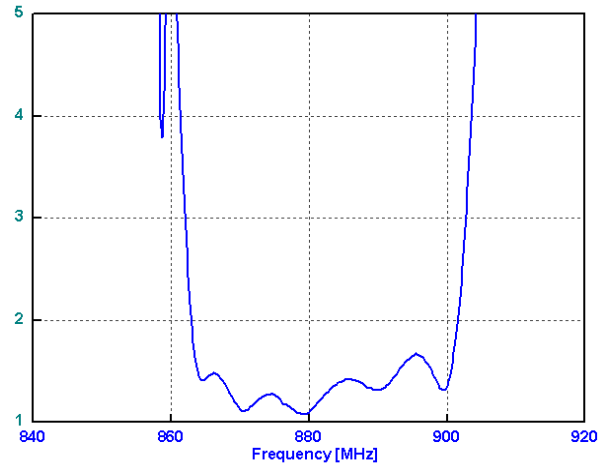
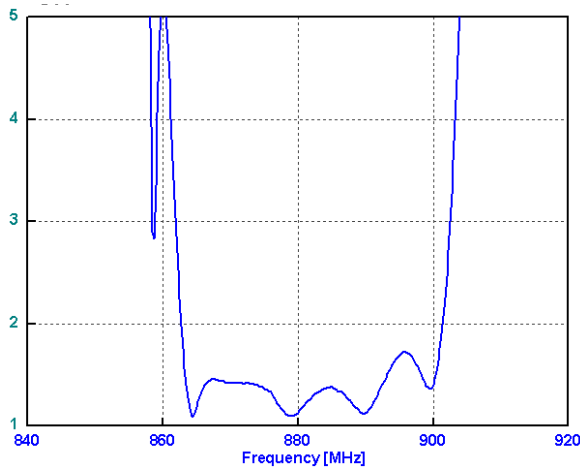


Frequency Performance





VSWR



Smith Chart

