

- SAW Duplexer For 910 MHz / 955 MHz
- Revision 0: January 2011

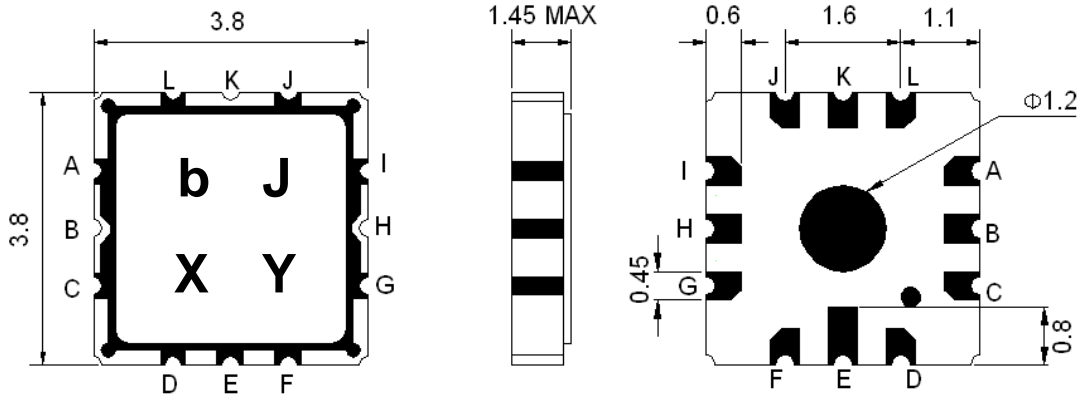
## Electrical Characteristics

| MAXIMUM RATING              |                 |  |           |         |
|-----------------------------|-----------------|--|-----------|---------|
| 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         | W               | 1.0 W > 50,000 Hours, CW tone(Ta= +50°C) |           |         |
| Input Impedance             | Ω               | -  | 50        | -       |
| Output Impedance            | Ω               | -  | 50        | -       |
| Package type & size         | P2              |  |           |         |
| Length x Width              | mm <sup>2</sup> | -  | 3.8 x 3.8 | -       |
| Height                      | mm              | -  | -         | 1.45    |

| ELECTRICAL SPECIFICATION |                 |                       |         |         |         |
|--------------------------|-----------------|-----------------------|---------|---------|---------|
| PARAMETERS               | CONDITION [MHZ] | UNIT                  | MINIMUM | TYPICAL | MAXIMUM |
| <b>Tx → Ant</b>          |                 | <b>Specifications</b> |         |         |         |
| Insertion Loss           | 905.0 ~ 915.0   | dB                    | -       | 1.2     | 2.5     |
| Amplitude Ripple         | 905.0 ~ 915.0   | dB <sub>p-p</sub>     | -       | 0.2     | 1.0     |
| VSWR                     | 905.0 ~ 915.0   | -                     | -       | 1.5     | 2.0     |
| Absolute Attenuation     | 950.0 ~ 960.0   | dB                    | 40      | 50      | -       |
| <b>Ant → Rx</b>          |                 | <b>Specifications</b> |         |         |         |
| Insertion Loss           | 950.0 ~ 960.0   | dB                    | -       | 1.3     | 2.5     |
| Amplitude Imbalance      | 950.0 ~ 960.0   | dB <sub>p-p</sub>     | -       | 0.3     | 1.0     |
| VSWR                     | 950.0 ~ 960.0   | -                     | -       | 1.3     | 2.0     |
| Absolute Attenuation     | 905.0 ~ 915.0   | dB                    | 45      | 55      | -       |
| <b>Tx → Rx</b>           |                 | <b>Specifications</b> |         |         |         |
| Isolation                | 905.0 ~ 915.0   | dB                    | 45      | 55      | -       |
|                          | 950.0 ~ 960.0   | dB                    | 50      | 58      | -       |

**Notes :** (1) With Matching Network .

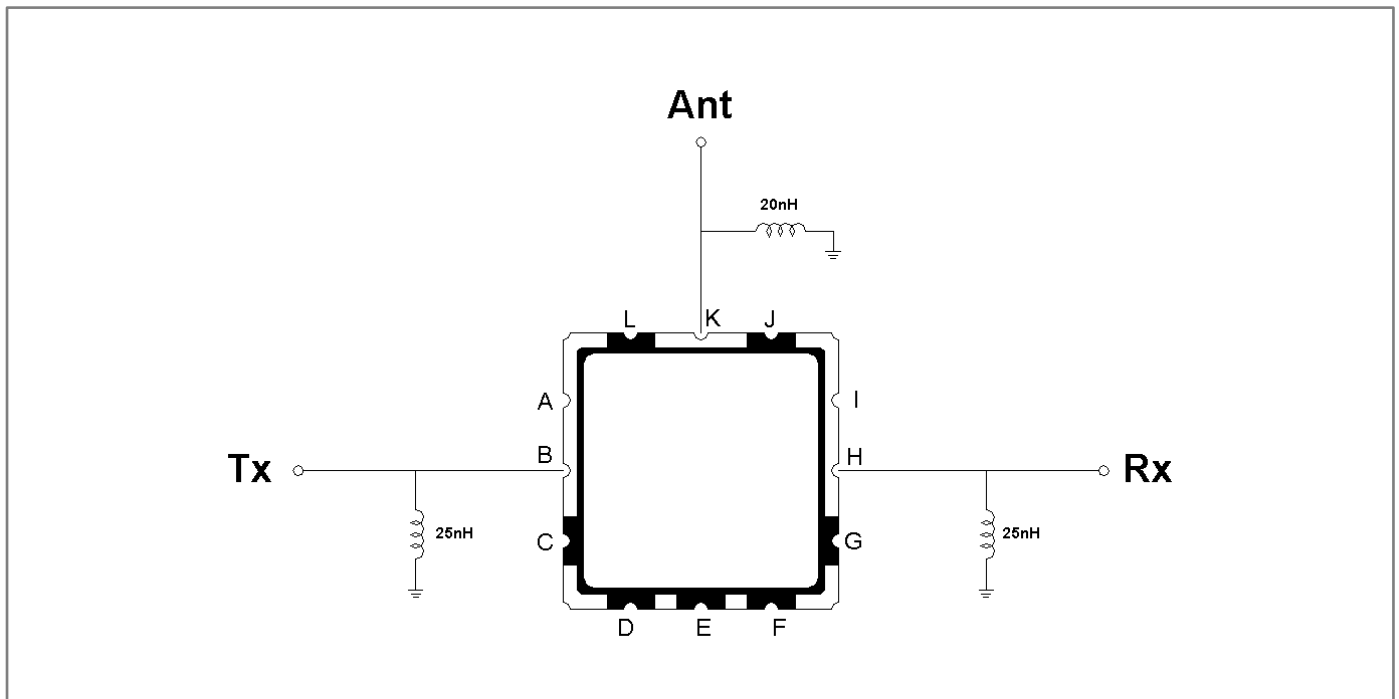
## Package Dimensions



| Marking Descriptions |                      |
|----------------------|----------------------|
| b                    | Wireless Application |
| J                    | Series Number        |
| X                    | Date Code (Year)     |
| Y                    | Date Code (Month)    |

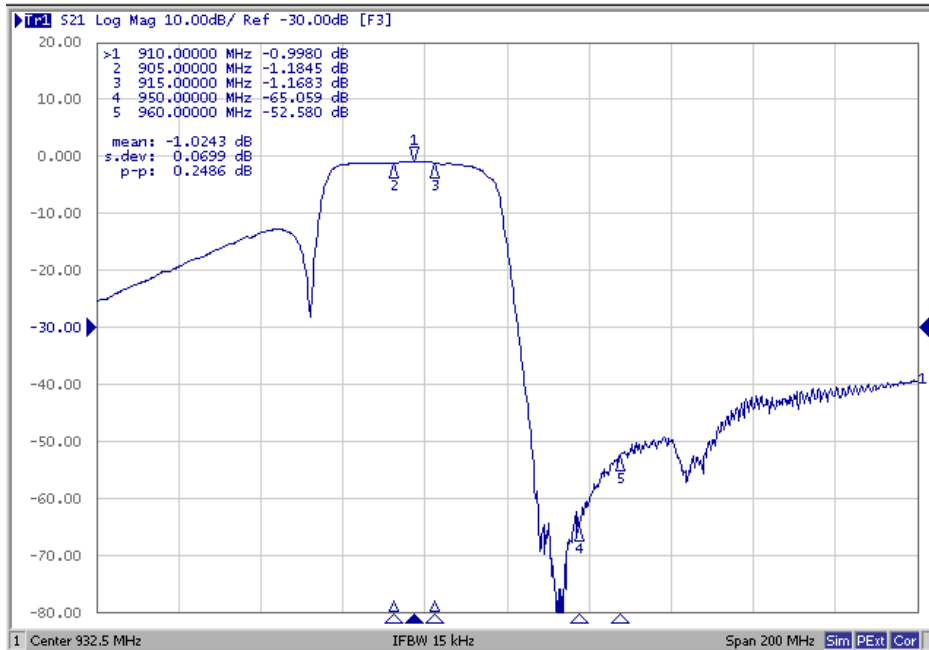
| Pin Description           |                |
|---------------------------|----------------|
| A, C, D, E, F, G, I, J, L | Ground         |
| K                         | Ant            |
| B                         | Tx (910.0 MHz) |
| H                         | Rx (955.0MHz)  |

## Testing Environment



## Frequency Characteristics

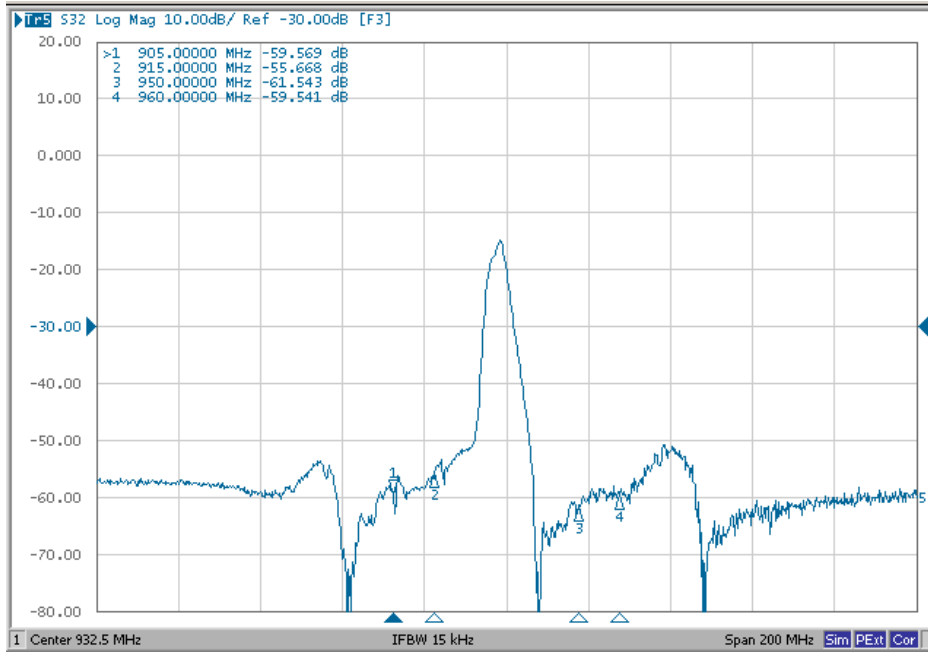
**Tx to Ant**



**Ant to Rx**

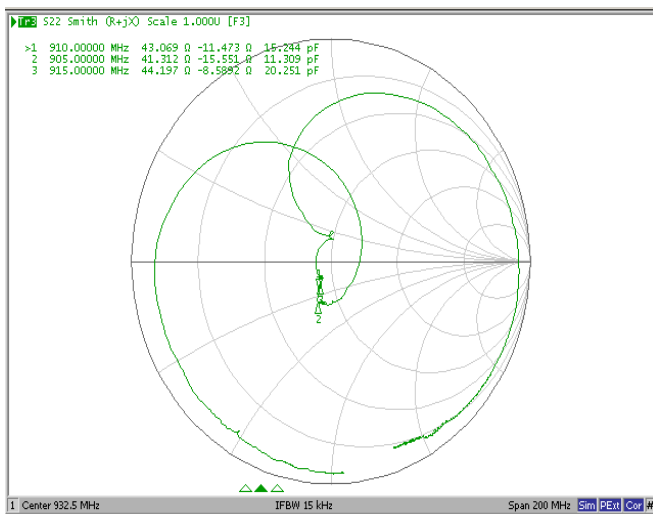


**Isolation**

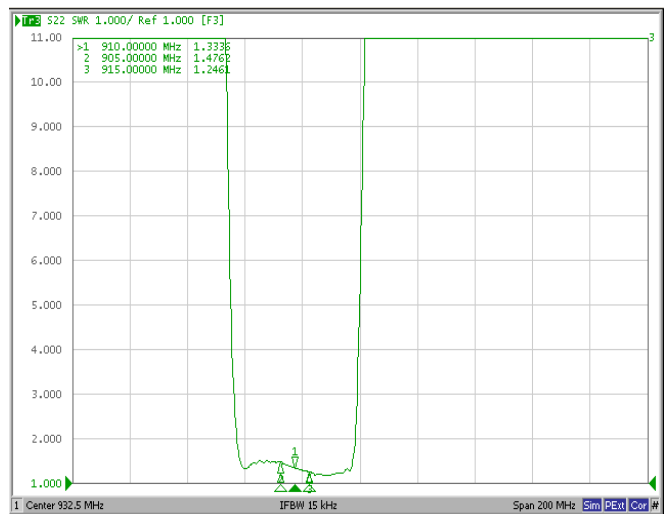


**Tx Part**

**Smith Chart**

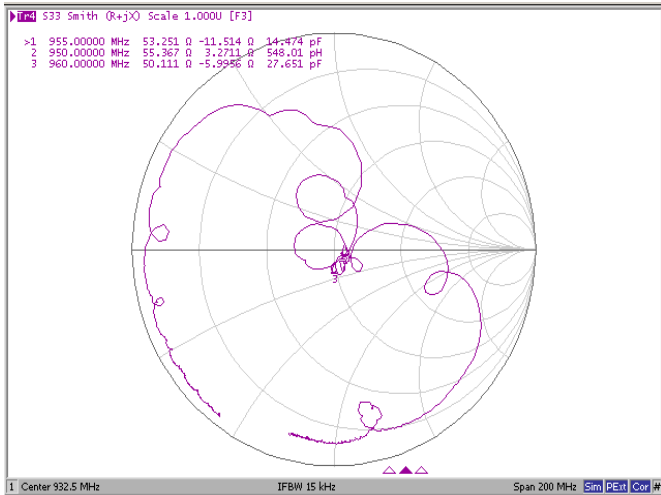


**VSWR**

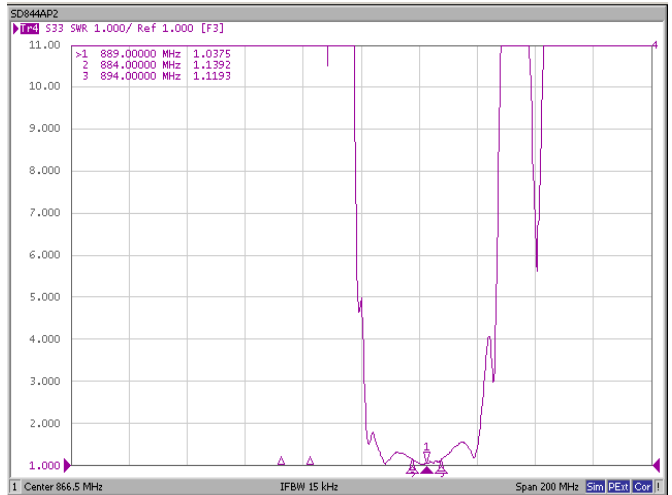


**Rx Part**

**Smith Chart**

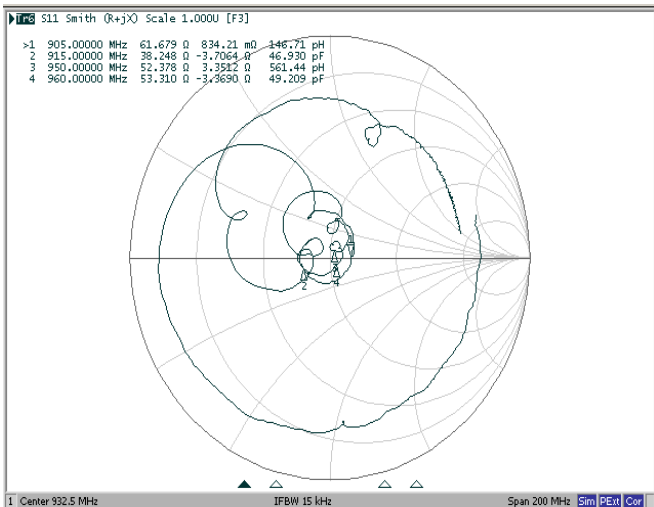


**VSWR**



**Antenna**

**Smith Chart**



**VSWR**

