- **CDMA SAW Duplexer**
- **Revision 1: November 2008**

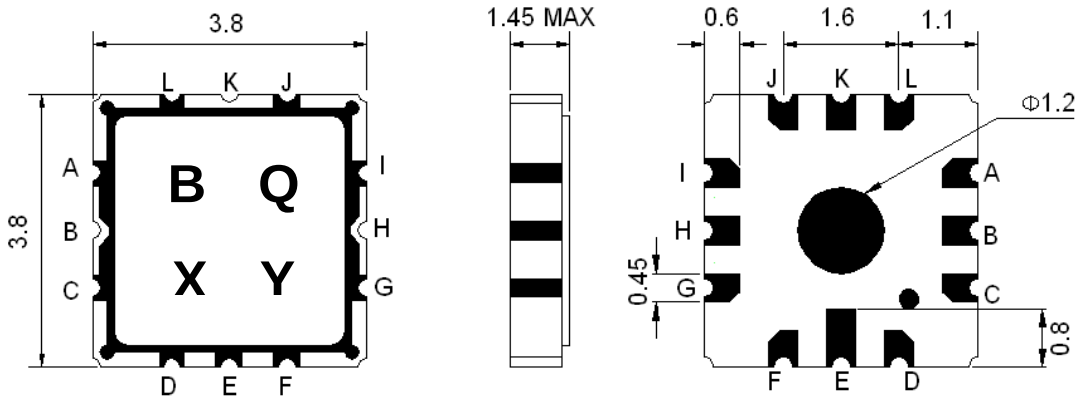
## Electrical Characteristics

| MAXIMUM RATING | | | | |
|---|---|---|---|---|
| **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** | W | 1.2W > 50000 Hours, CW tone(Ta= +50°C) | | |
| **Ant. Tx. Rx Terminating Impedance** | Ω | - | 50 | - |
| **Package type** | C1 | | | |
| **Length x Width** | mm² | - | 3.8 x 3.8 | - |
| **Height** | mm | - | - | 1.45 |

| ELECTRICAL SPECIFICATION | | | | | |
|---|---|---|---|---|---|
| **PARAMETERS** | **CONDITION [MHZ]** | **UNIT** | **MINIMUM** | **TYPICAL** | **MAXIMUM** |
| **Tx_836.5MHz** | | **Specifications** | | | |
| **Insertion Loss** | 824 ~ 849 | dB | - | 1.5 | 2.2 |
| **Ripple** | 824 ~ 849 | dBp-p | - | 0.4 | 1.0 |
| **VSWR** | 824 ~ 849 | - | - | 1.9 | 2.4 |
| **Absolute Attenuation** | 859 | dB | 4 | 9 | - |
| | 869 ~ 894 | dB | 45 | 50 | - |
| **Rx_881.5MHz** | | **Specifications** | | | |
| **Insertion Loss** | 869 ~ 894 | dB | - | 2.0 | 3.0 |
| **Ripple** | 869 ~ 894 | dBp-p | - | 0.8 | 1.5 |
| **VSWR** | 869 ~ 894 | - | - | 1.7 | 2.2 |
| **Absolute Attenuation** | 824 ~ 849 | dB | 50 | 58 | - |
| | 859 | dB | 4 | 13 | - |
| **Rx → Tx** | | **Specifications** | | | |
| **Isolation** | 824 ~ 849 | dB | 50 | 55 | - |
| | 869 ~ 894 | dB | 48 | 53 | |

**Notes :** Including losses due to Test PCB(0.3dB)

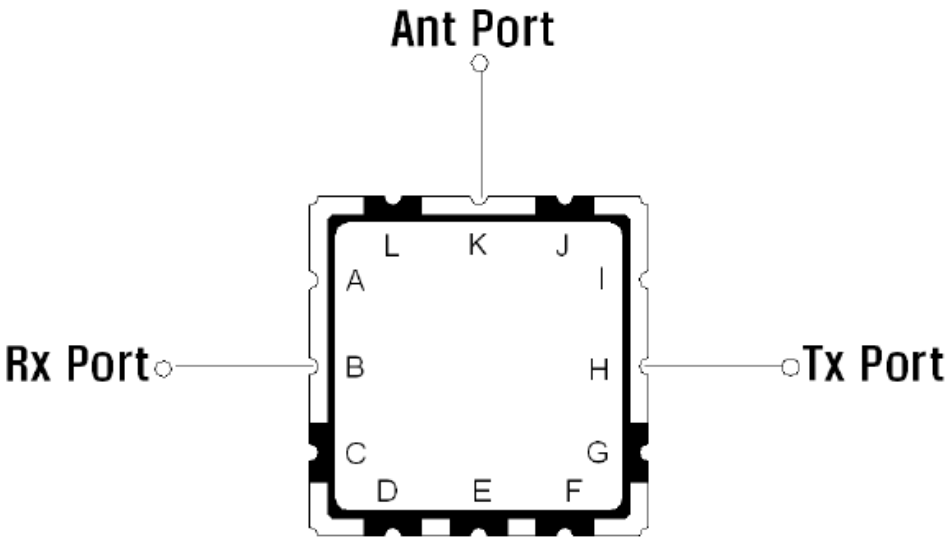
## Package Dimensions




| Marking Descriptions | |
|---|---|
| B | CDMA800 Application |
| Q | SAW Duplexer |
| X | Date Code (Year) |
| Y | Date Code (Month) |

| Pin Description | |
|---|---|
| A, C, D, E, F, G, I, J, L | GND |
| B | Rx Port(881.5MHz) |
| K | Antenna |
| H | Tx Port (836.5MHz) |

## Testing Environment

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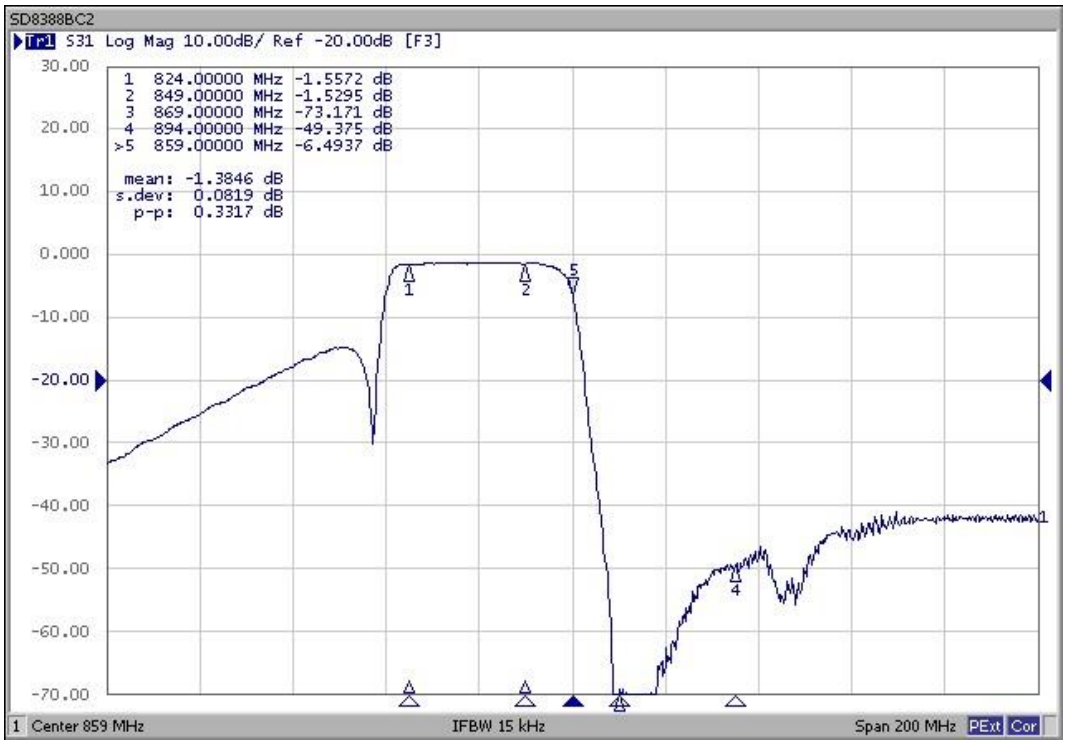
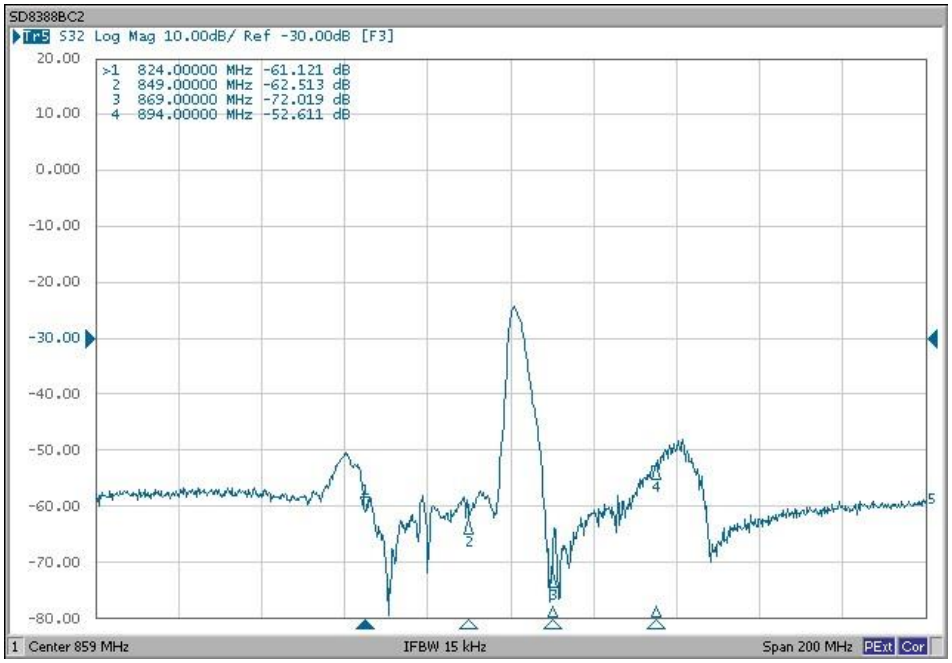
## Frequency Characteristics

### Tx Characteristic




### Rx Characteristic

## Isolation Characteristic

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## VSWR & Smith Chart