

- CDMA 450 E-Band, Balanced RF-Rx SAW Filter
- Revision 0: August 2006

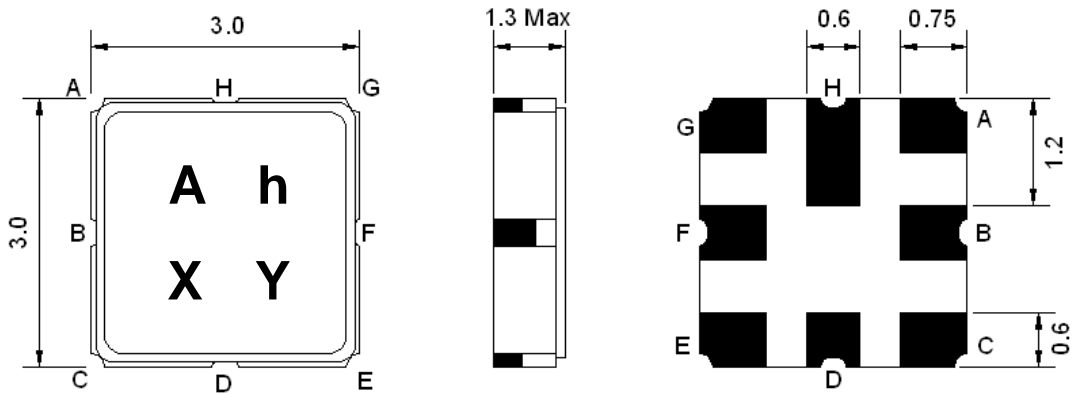
## Electrical Characteristics

| 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                            | dBm             | -       | -         | 27      |
| Source Impedance (single ended) <sup>(1)</sup> | Ω               | -       | 50        | -       |
| Load Impedance (balanced ended) <sup>(1)</sup> | Ω               | -       | 100       | -       |
| Package type & size                            | M1              |         |           |         |
| Length x Width                                 | mm <sup>2</sup> | -       | 3.0 x 3.0 | -       |
| Height   | mm              | -       | -         | 1.3     |

| ELECTRICAL SPECIFICATION                |      |         |         |         |
|---|------|---------|---------|---------|
| PARAMETERS DESCRIPTION                  | UNIT | MINIMUM | TYPICAL | MAXIMUM |
| Center Frequency (Fo)                   | MHz  | -       | 427.75  | -       |
| Insertion Loss within 425.5 ~ 430.0 MHz | dB   | -       | 2.3     | 4.0     |
| <b>Attenuation:</b>                     |      |         |         |         |
| 0.3 ~ 415.5 MHz                         | dB   | 40      | 50      | -       |
| 415.5 ~ 420.0 MHz                       | dB   | 35      | 48      | -       |
| 450.0 ~ 600.0 MHz                       | dB   | 35      | 40      | -       |
| 600.0 ~ 1200.0 MHz                      | dB   | 40      | 50      | -       |
| 1200.0 ~ 2000.0 MHz                     | dB   | 30      | 45      | -       |
| VSWR within 425.5 ~ 430.0 MHz           | -    | -       | 1.7     | 2.4     |

**Notes :** (1) No Matching Network.

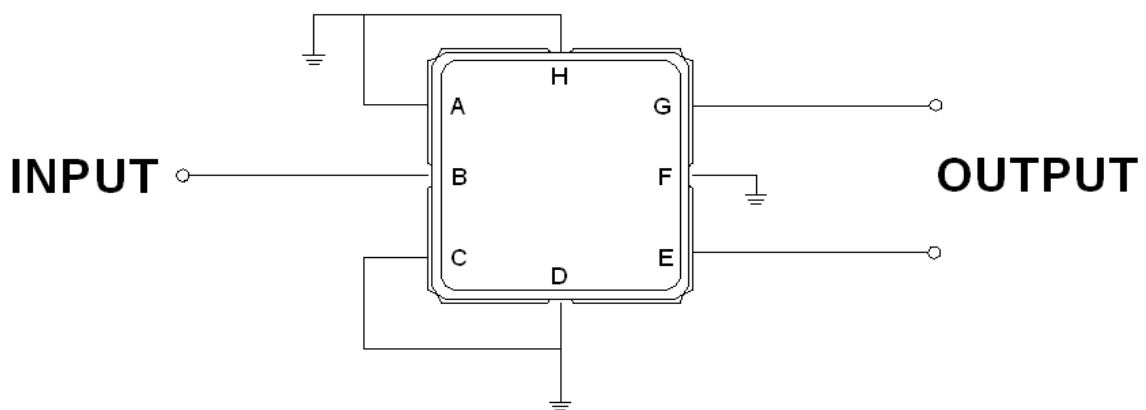
## Package Dimensions



| Marking Descriptions |                     |
|----------------------|---------------------|
| A                    | CDMA450 Application |
| h                    | Series Number       |
| X                    | Date Code (Year)    |
| Y                    | Date Code (Month)   |

| Pin Description |        |
|-----------------|--------|
| A, C, D, F, H   | Ground |
| B               | In     |
| E, G            | Out    |

## Testing Environment

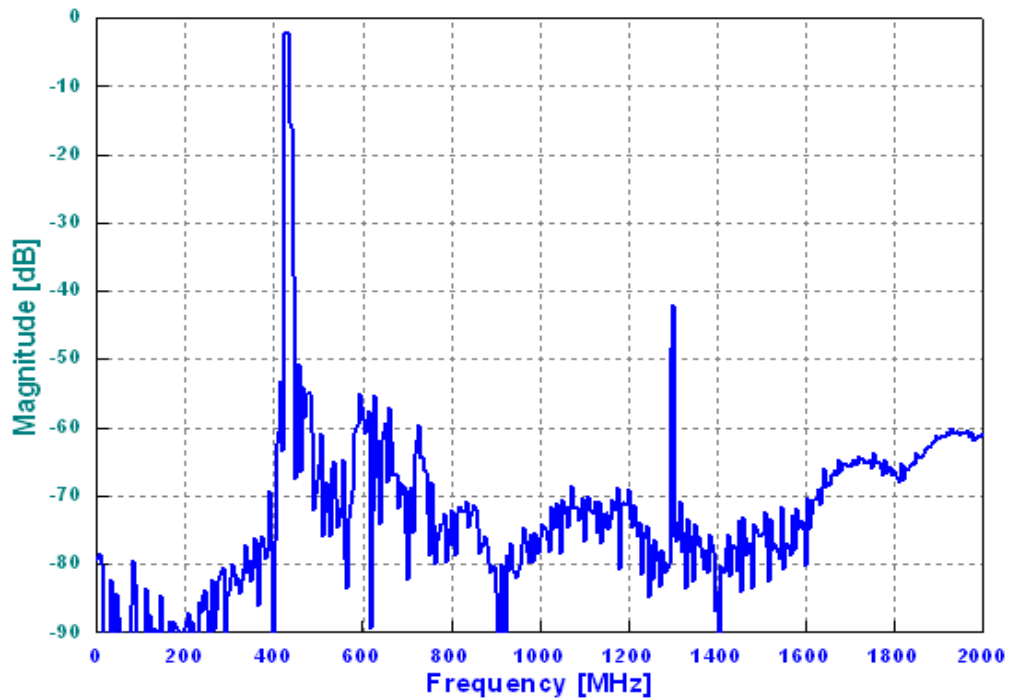
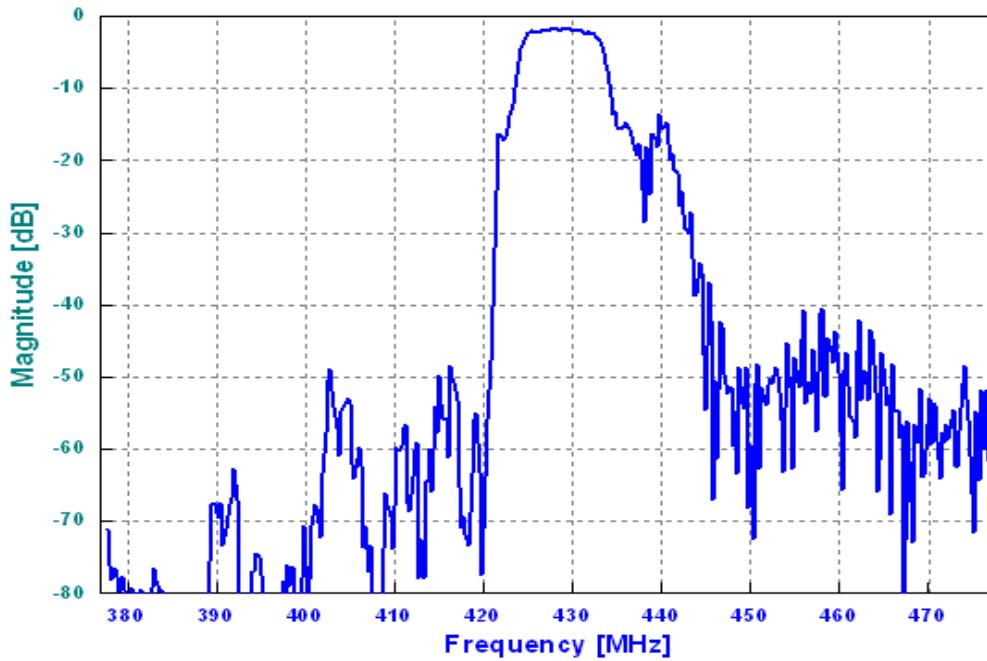


Source Impedance: 50  $\Omega$

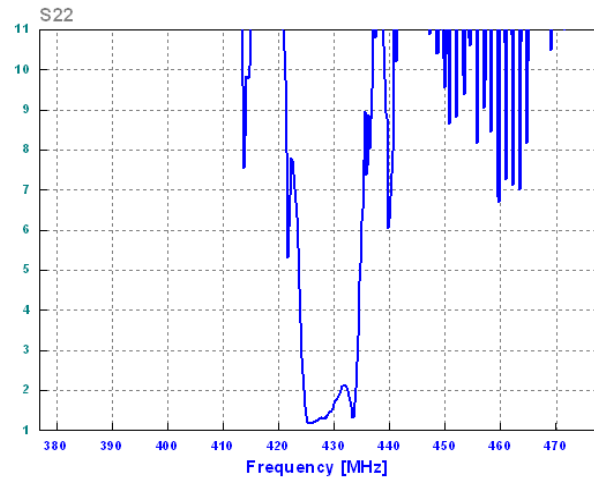
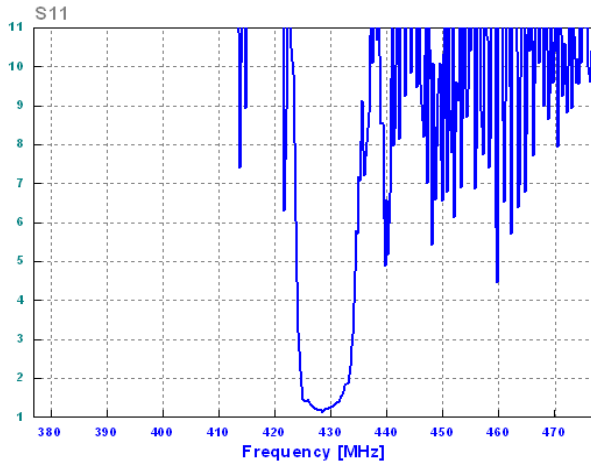
Load Impedance: 100  $\Omega$

## Frequency Characteristics

Frequency Response



**VSWR**



**Smith Chart**

