



*Total Solution Provider in Saw Device*

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# SA434CM

Wireless, RF SAW Filter  
Revision 0: October 2008



- Electrical Characteristics
  - Package Dimensions
  - Testing Environment
  - Frequency Characteristics
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## □ Electrical Characteristics

### Maximum Ratings

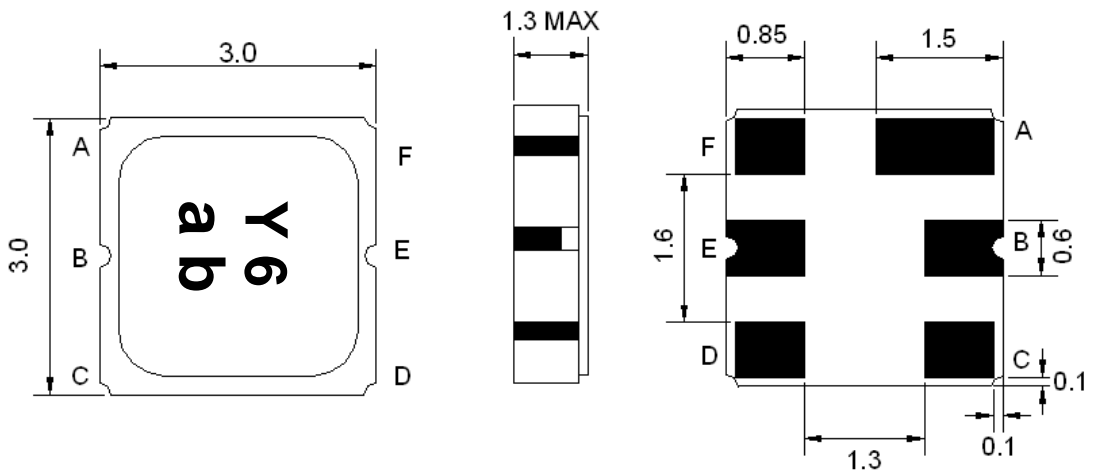
| Parameters Description                         | Unit            | Minimum | Typical   | Maximum |
|--|-----------------|---------|-----------|---------|
| Operating Temperature Range                    | °C              | -40     | -         | +85     |
| Storage Temperature Range                      | °C              | -40     | -         | +85     |
| Maximum DC Voltage                             | V               | -       | -         | 0       |
| Maximum Input Power                            | dBm             | -       | -         | 15      |
| Source Impedance (single ended) <sup>(1)</sup> | Ω               | -       | 50        | -       |
| Load Impedance (single ended) <sup>(1)</sup>   | Ω               | -       | 50        | -       |
| Package type & size                            | M               |         |           |         |
| 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               | -       | 433.92  | -       |
| Insertion Loss within 433.05 ~ 434.79 MHz  | dB                | -       | 2.5     | 3.0     |
| Amplitude Ripple within 433.05 ~ 434.79MHz | dB <sub>p-p</sub> | -       | 0.5     | 1.0     |
| <b>Attenuation:</b>                        |                   |         |         |         |
| 389.0 ~ 392.0 MHz                          | dB                | 50      | 60      | -       |
| 411.0 ~ 414.0 MHz                          | dB                | 45      | 52      | -       |
| 422.0 ~ 425.0 MHz                          | dB                | 35      | 45      | -       |
| 443.0 ~ 446.0 MHz                          | dB                | 15      | 18      | -       |
| 454.0 ~ 457.0 MHz                          | dB                | 35      | 48      | -       |
| 475.0 ~ 479.0 MHz                          | dB                | 45      | 55      | -       |
| VSWR within 433.05 ~ 434.79 MHz            | -                 | -       | 1.4     | 2.0     |

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

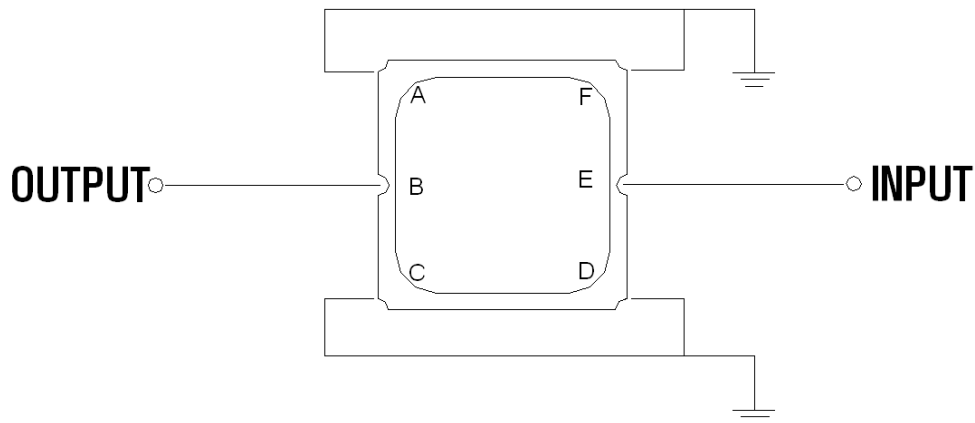
**Package Dimensions**



| Marking Descriptions |                      |
|----------------------|----------------------|
| Y                    | Wireless Application |
| 6                    | Series Number        |
| a                    | Date Code(Year)      |
| b                    | Date Code(Month)     |

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

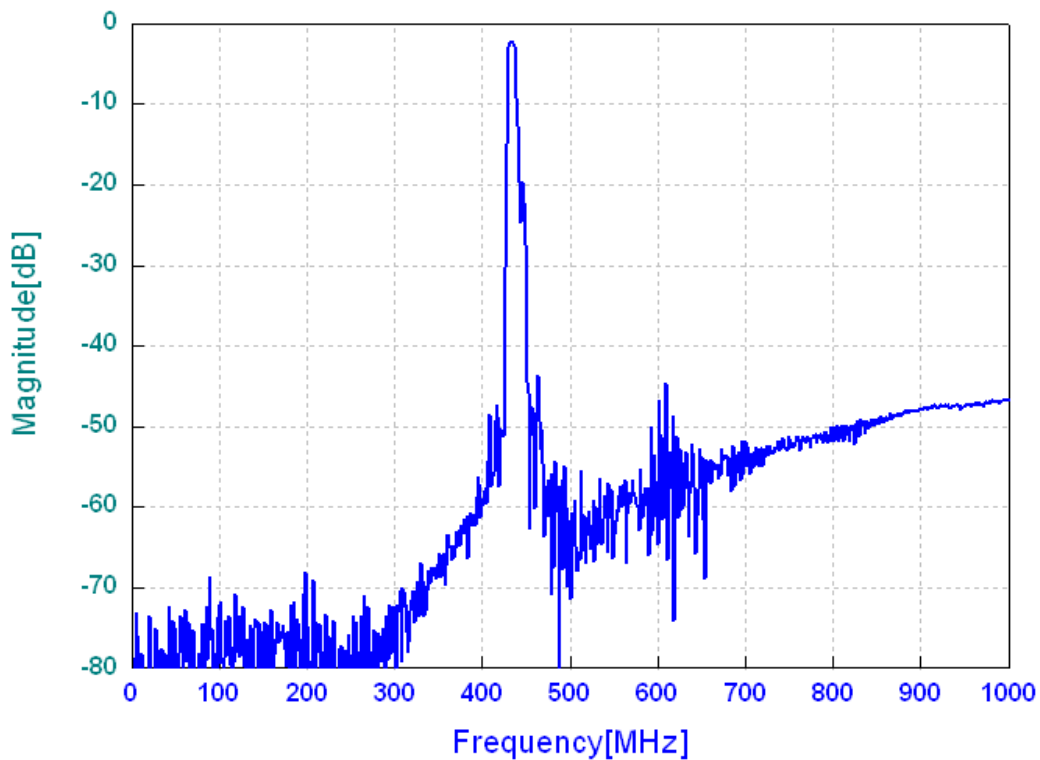
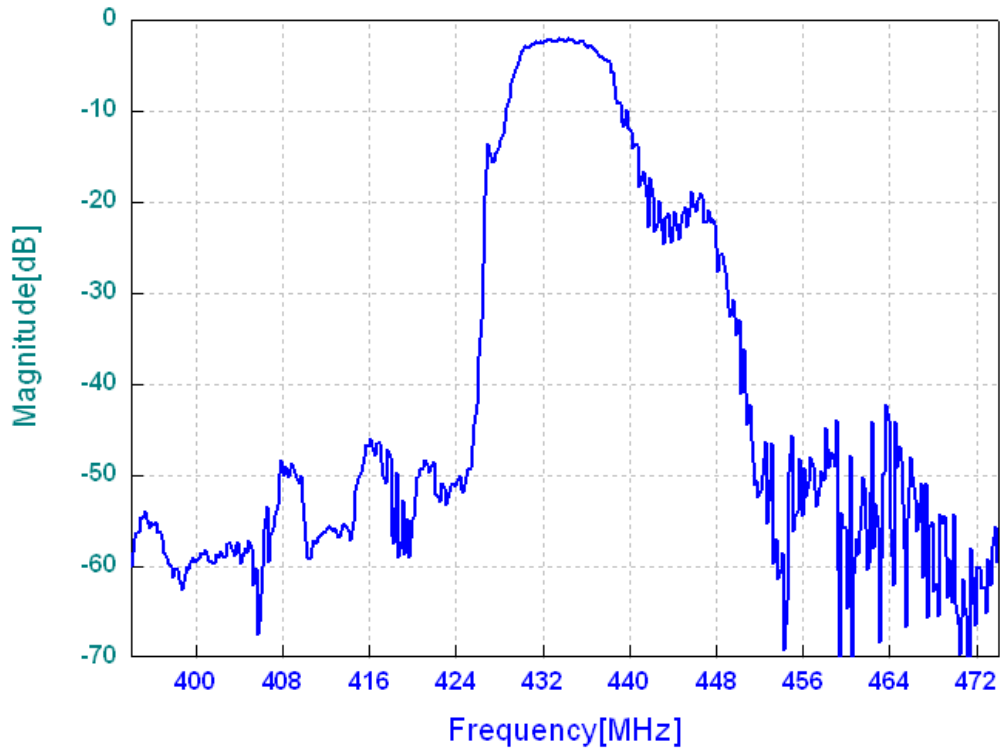
**Testing Environment**



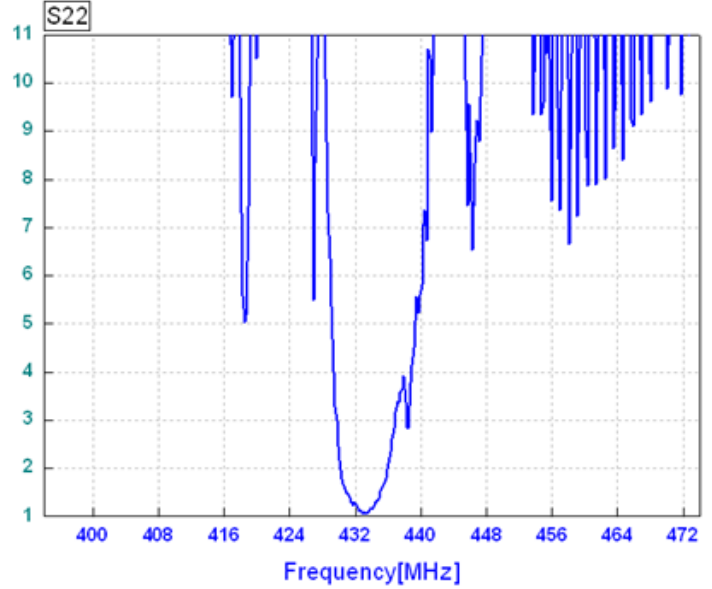
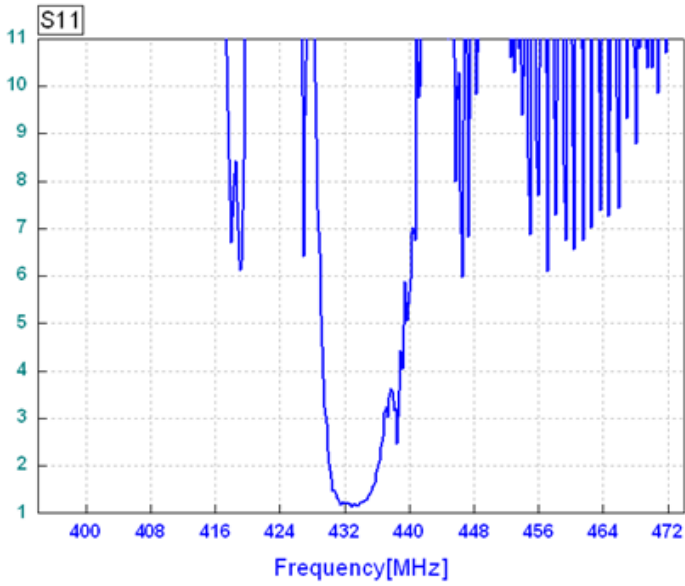
Source & Load Impedance: 50 Ω

### □ Frequency Characteristics

Frequency Response



### VSWR



### Smith Chart

