



*Total Solution Provider in Saw Device*

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# SA374AP

CDMA, RF-Tx SAW Filter  
Revision 2: June 2004



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

### Maximum Ratings

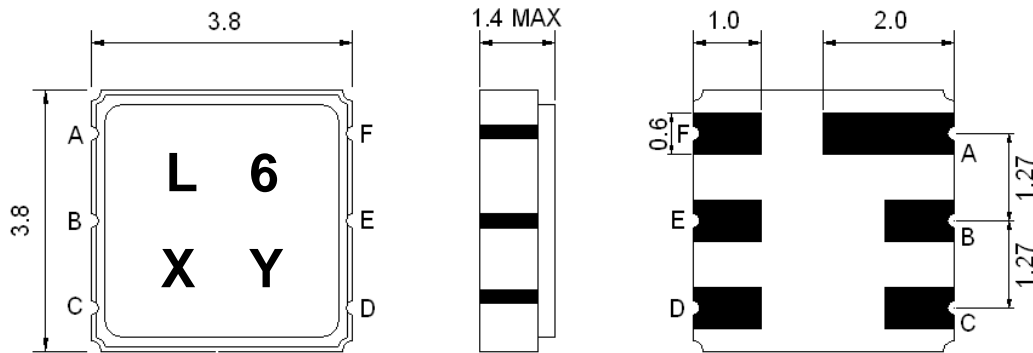
| Parameters Description                         | Unit            | Minimu | Typical   | Maximum |
|------------------------------------------------|-----------------|--------|-----------|---------|
| Operating Temperature Range                    | °C              | -30    | -         | +80     |
| 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 (single ended) <sup>(1)</sup>   | Ω               | -      | 50        | -       |
| Package type & size                            | P               |        |           |         |
| Length x Width                                 | mm <sup>2</sup> | -      | 3.8 x 3.8 | -       |
| Height                                         | mm              | -      | -         | 1.4     |

### Electrical Specification

| Parameters Description                    | Unit              | Minimu | Typical | Maximum |
|-------------------------------------------|-------------------|--------|---------|---------|
| Center Frequency (Fo)                     | MHz               | -      | 374.0   | -       |
| Insertion Loss within 372.0 ~ 376.0 MHz   | dB                | -      | 2.3     | 3.0     |
| Amplitude Ripple within 372.0 ~ 376.0 MHz | dB <sub>p-p</sub> | -      | 0.7     | 1.5     |
| <b>Attenuation:</b>                       |                   |        |         |         |
| DC ~ 350.0 MHz                            | dB                | 25     | 29      | -       |
| 382.0 ~ 386.0 MHz                         | dB                | 25     | 29      | -       |
| 400.0 ~ 500.0 MHz                         | dB                | 28     | 33      | -       |
| VSWR within 372.0 ~ 376.0 MHz             | -                 | -      | 1.2     | 2.0     |

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

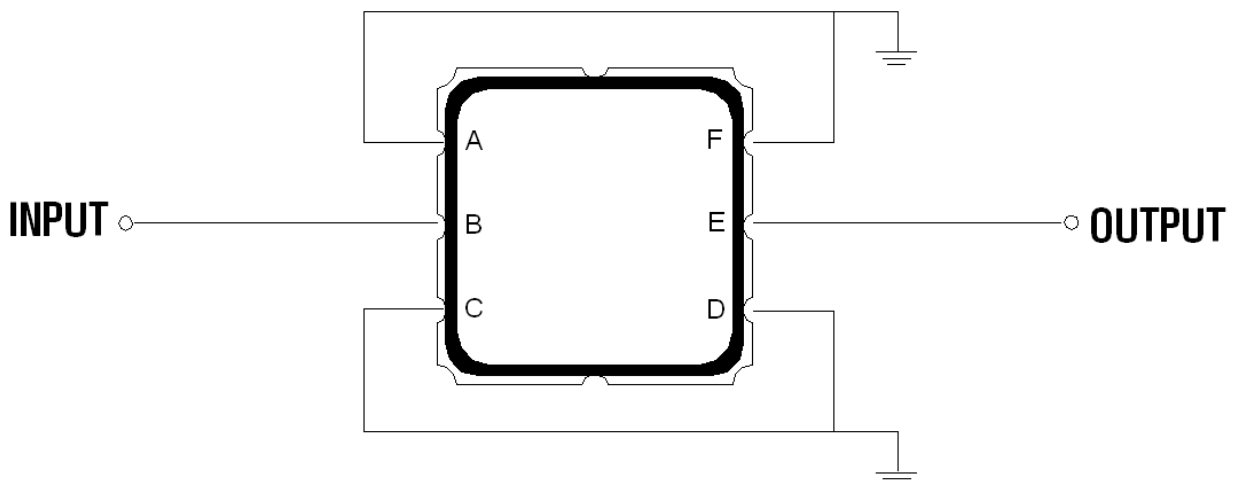
**Package Dimensions**



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

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

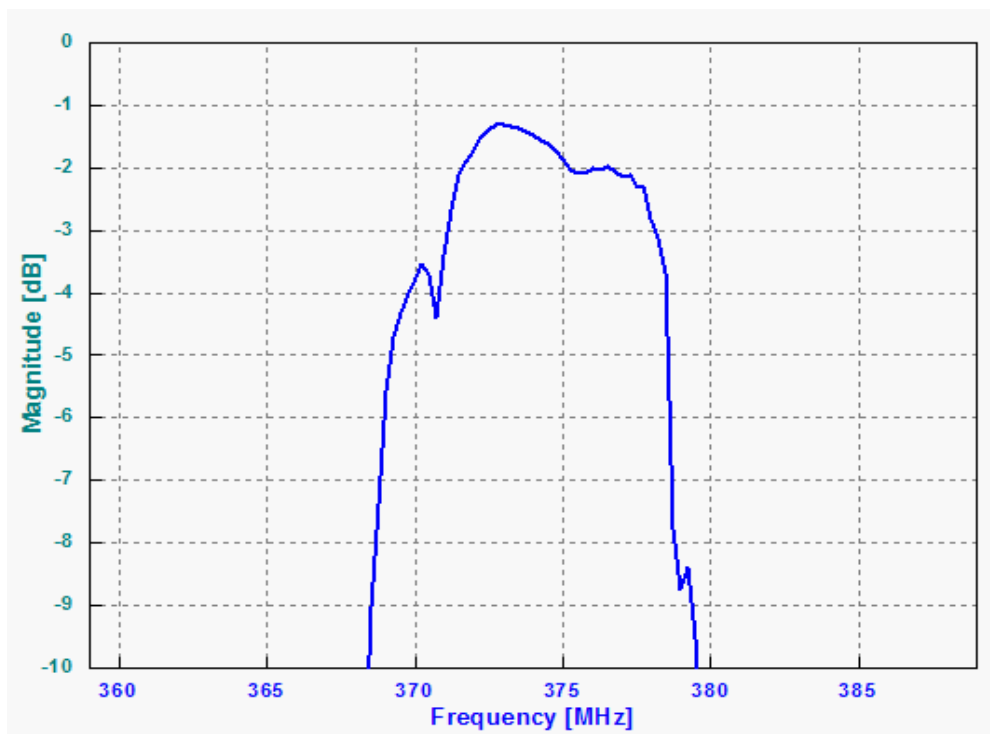
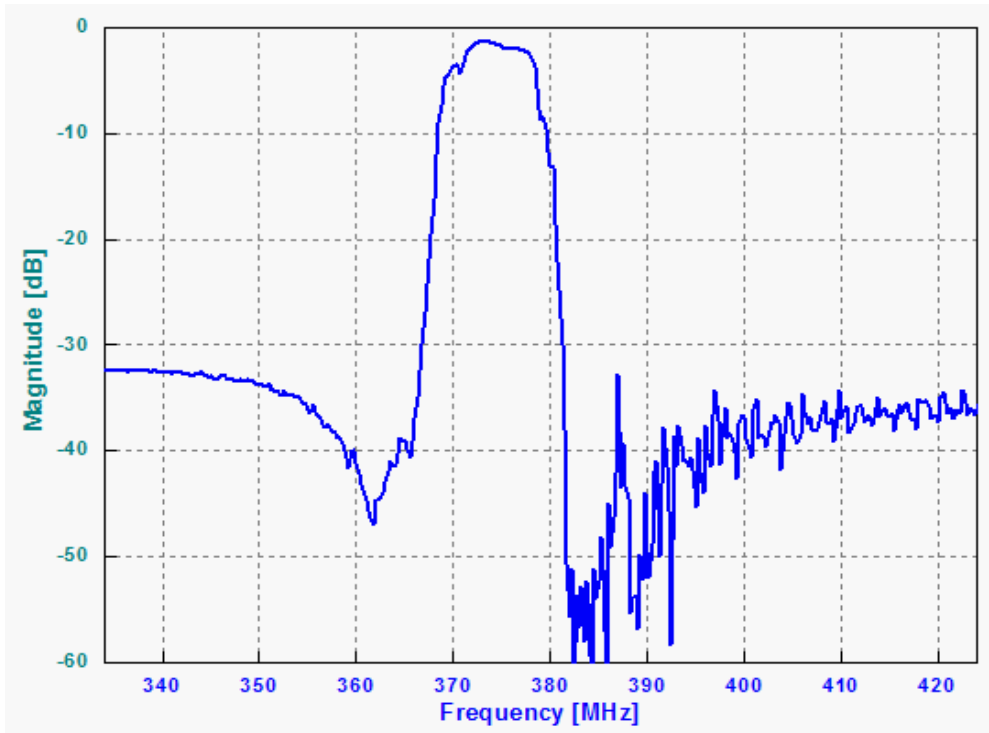
**Testing Environment**



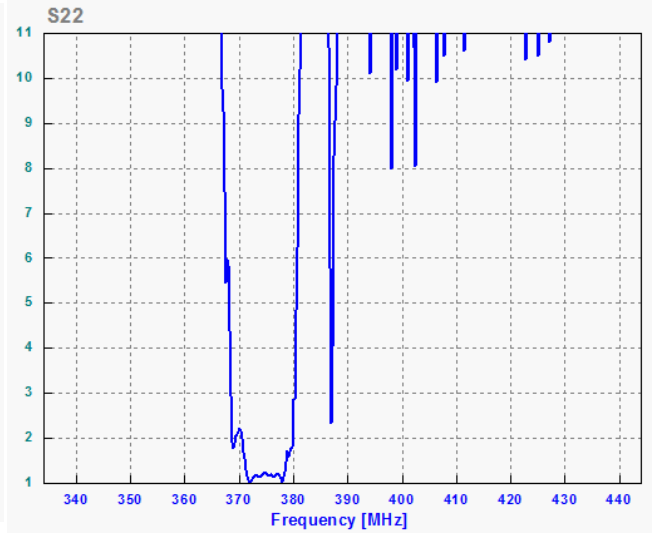
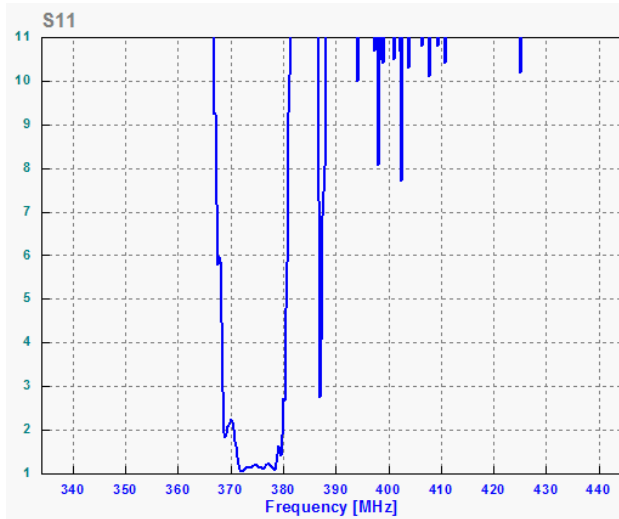
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



### VSWR



### Smith Chart

