



Total Solution Provider in Saw Device

SA422EM

CDMA 450 L-Band, RF-Rx SAW Filter
Revision 0: March 2007



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

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□ Electrical Characteristics

Maximum Ratings

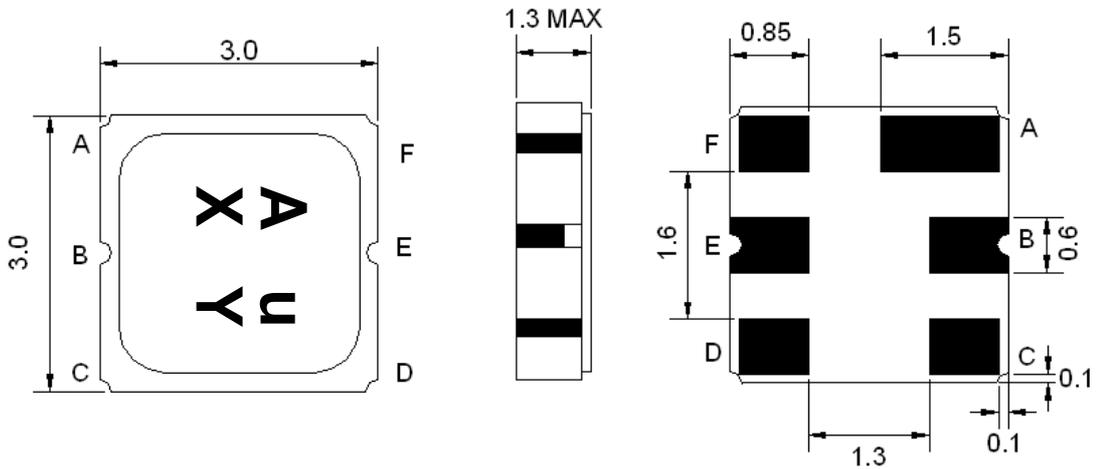
| Parameters Description | Unit | Minimum | Typical | Maximum |
|--|-----------------|---------|-----------|---------|
| Operating Temperature Range | °C | -30 | - | +80 |
| Storage Temperature Range | °C | -40 | - | +85 |
| Maximum DC Voltage | V | - | - | 0 |
| Maximum Input Power | dBm | - | - | 27 |
| Source Impedance (single ended) ⁽¹⁾ | Ω | - | 50 | - |
| Load Impedance (single ended) ⁽¹⁾ | Ω | - | 50 | - |
| Package type & size | M | | | |
| Length x Width | mm ² | - | 3.0 x 3.0 | - |
| Height | mm | - | - | 1.3 |

Electrical Specification

| Parameters Description | Unit | Minimum | Typical | Maximum |
|------------------------------------|------|---------|---------|---------|
| Center Frequency (Fo) | MHz | - | 422.75 | - |
| Insertion Loss in 420.5 ~425.0 MHz | dB | - | 3.2 | 3.5 |
| Stop Band Attenuation: | | | | |
| 0.3 ~ 410.5 MHz | dB | 37 | 47 | - |
| 410.5 ~ 415.0 MHz | dB | 35 | 49 | - |
| 445.0 ~ 600.0 MHz | dB | 40 | 48 | - |
| 600.0 ~ 1200.0 MHz | dB | 40 | 47 | - |
| 1200.0 ~ 2000.0 MHz | dB | 30 | 40 | - |
| VSWR in 420.5 ~ 425.0 MHz | - | - | 2.0 | 2.4 |

Notes : (1) No Matching Network .

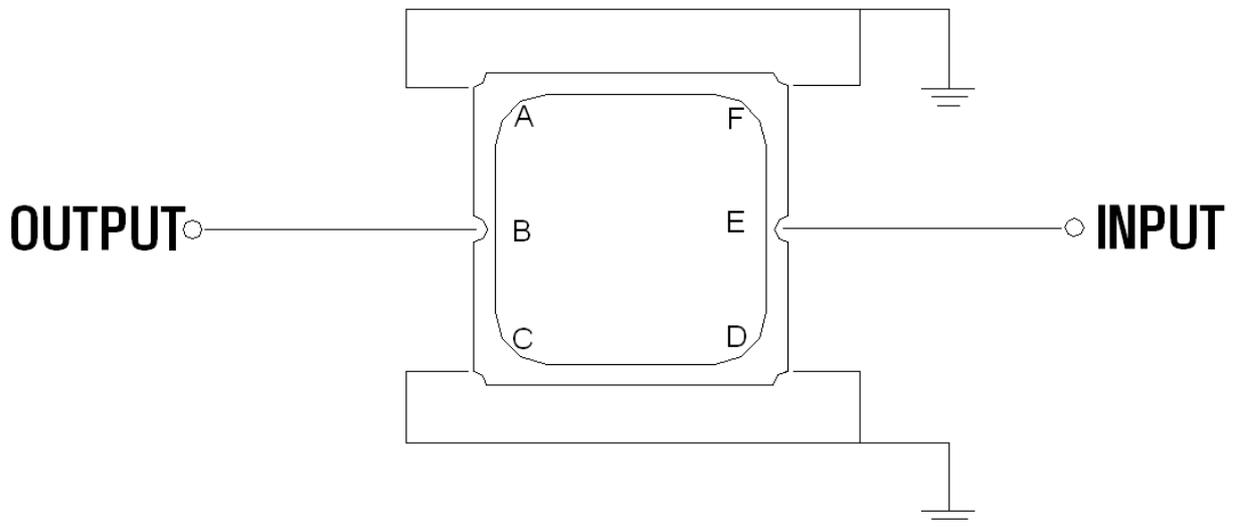
Package Dimensions



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

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

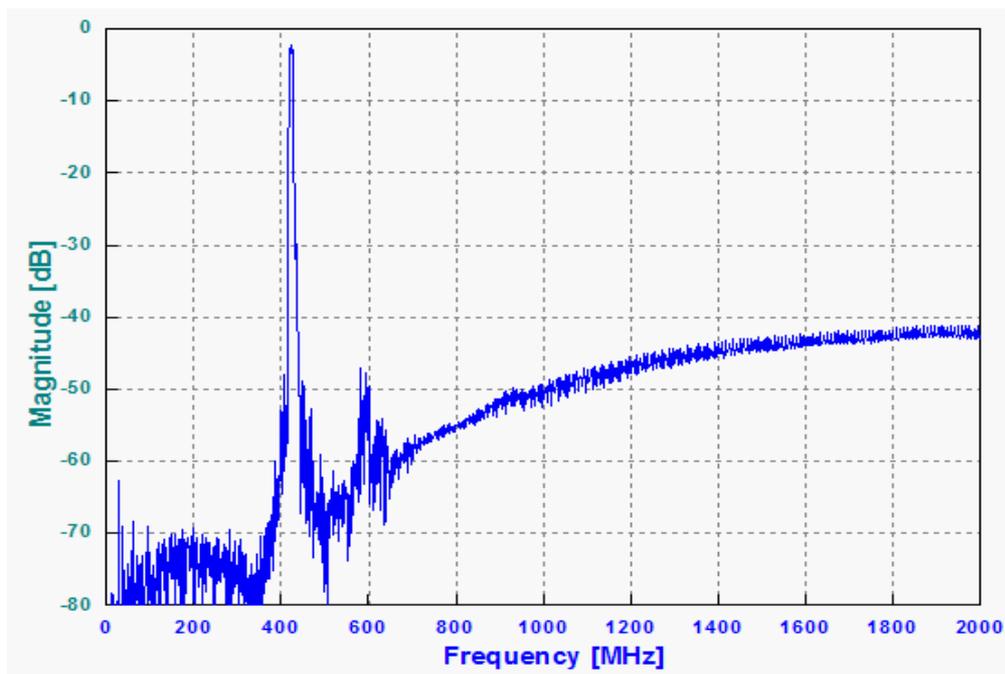
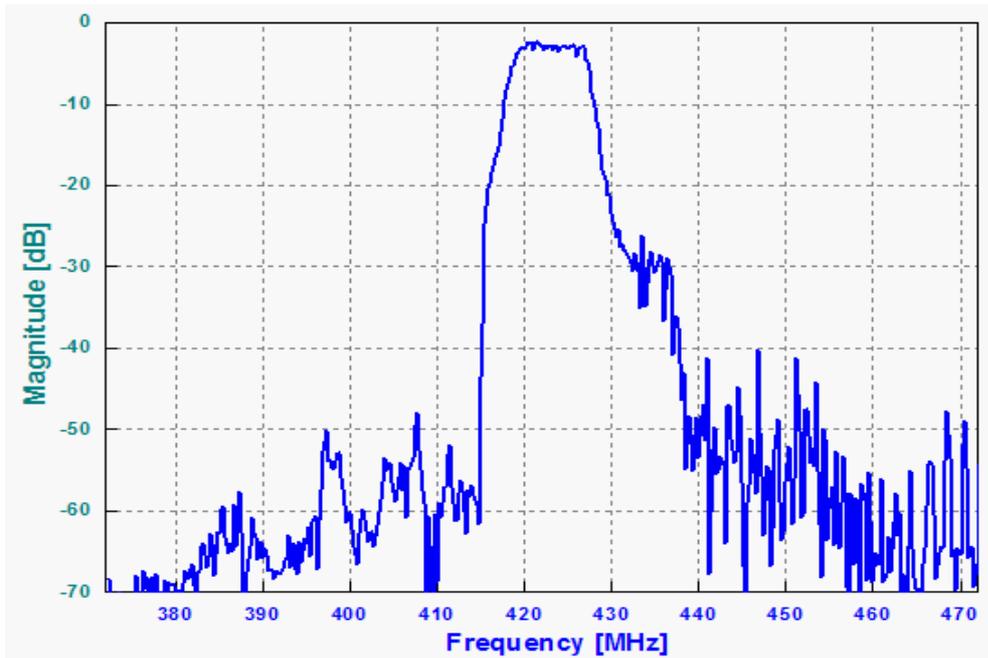
Testing Environment



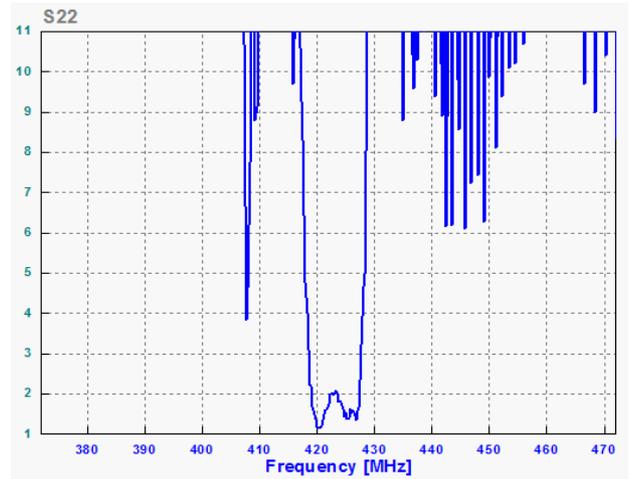
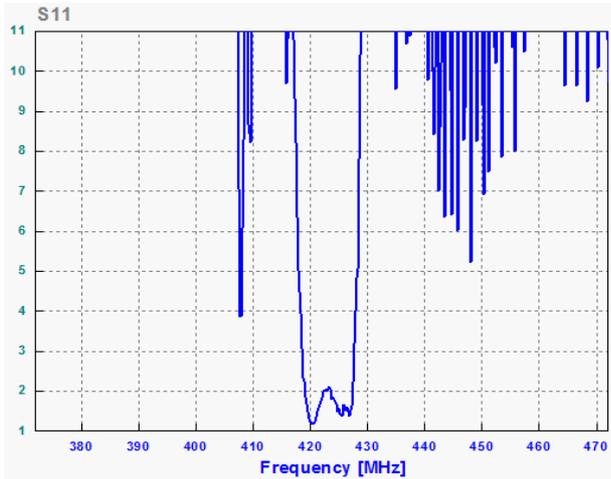
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

