



Total Solution Provider in Saw Device

SA953CM

RFID, RF SAW Filter

Revision 0: August 2008



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

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□ Electrical Characteristics

Maximum Ratings

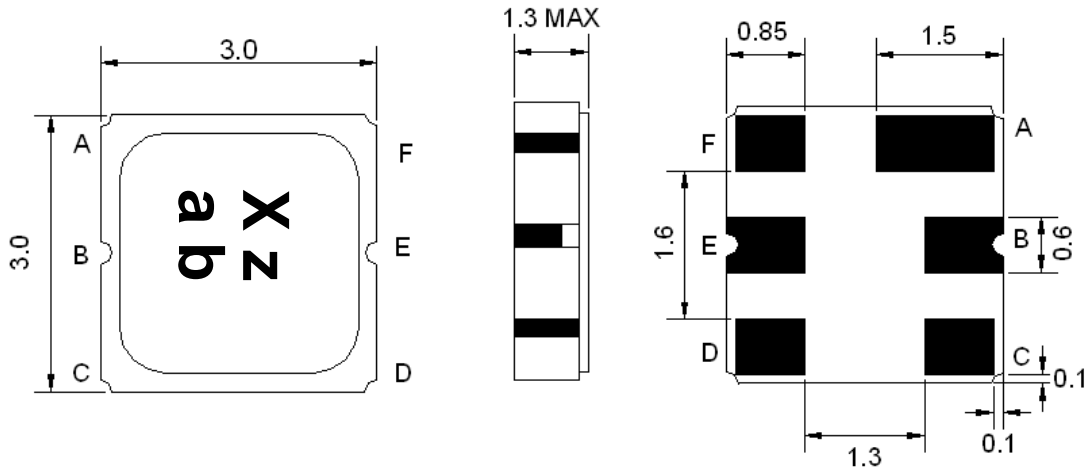
| Parameters Description | Unit | Minimum | Typical | Maximum |
|--|-----------------|---------|-----------|---------|
| Operating Temperature Range | °C | -30 | - | +80 |
| Storage Temperature Range | °C | -40 | - | +85 |
| Maximum DC Voltage | V | - | - | 0 |
| Maximum Input Power | dBm | - | - | 15 |
| 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 | - | 953.5 | - |
| Insertion Loss within 952.0~955.0MHz | dB | - | 3.0 | 3.5 |
| Amplitude Ripple within 952.0~955.0MHz | dB _{p-p} | - | 0.5 | 1.0 |
| Attenuation: | | | | |
| 0.3 ~ 920.0 MHz | dB | 45 | 50 | - |
| 1000.0 ~ 2000.0 MHz | dB | 30 | 45 | - |
| VSWR within 952.0~955.0MHz | - | - | 1.5 | 2.0 |

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

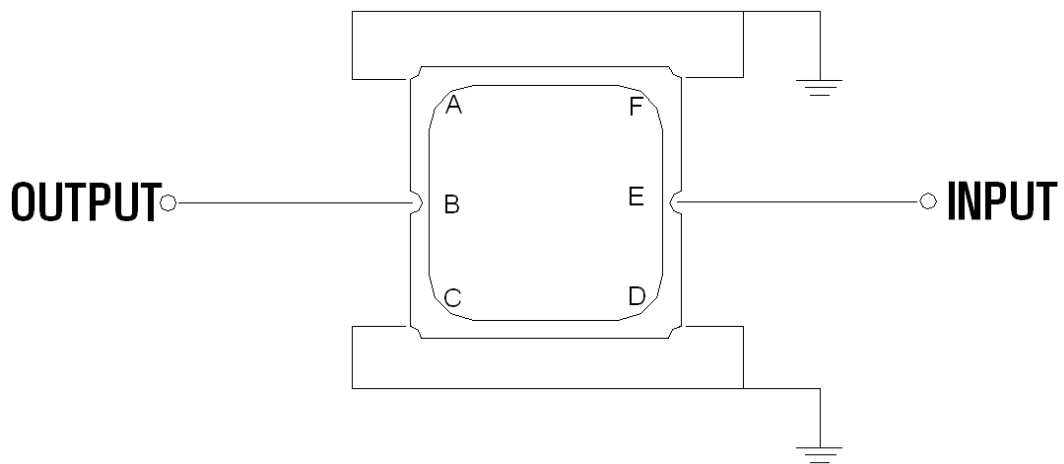
Package Dimensions



| Marking Descriptions | |
|----------------------|------------------|
| X | RFID Application |
| z | Series Number |
| a | Date Code(Year) |
| b | Date Code(Month) |

| Pin Description | |
|-----------------|-----------------|
| A, C, D, F | Ground |
| E | Input or Output |
| B | Output or Input |

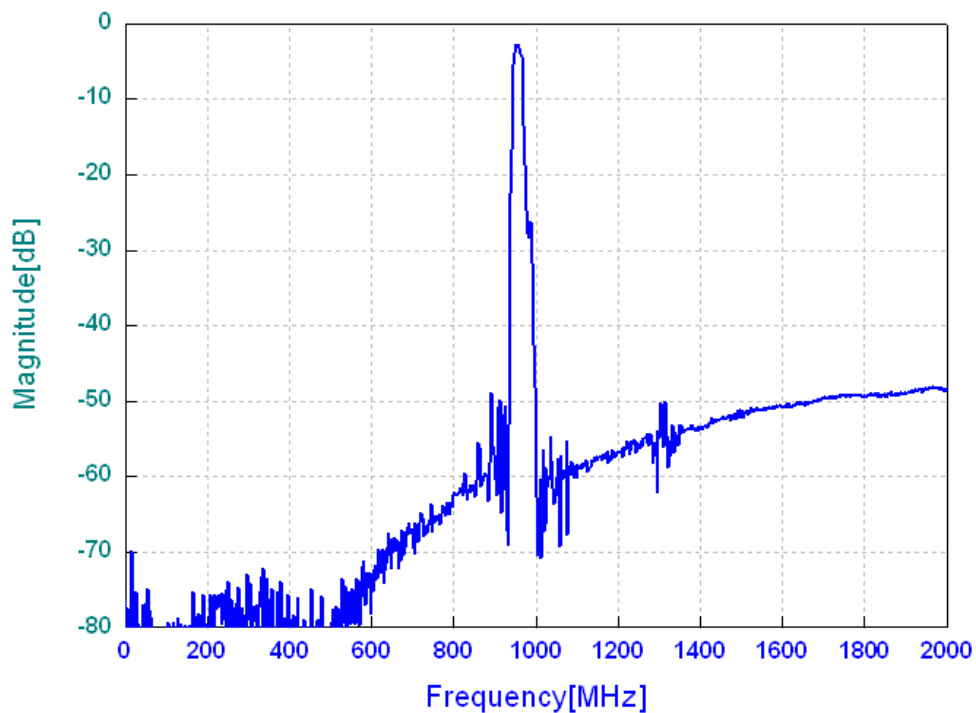
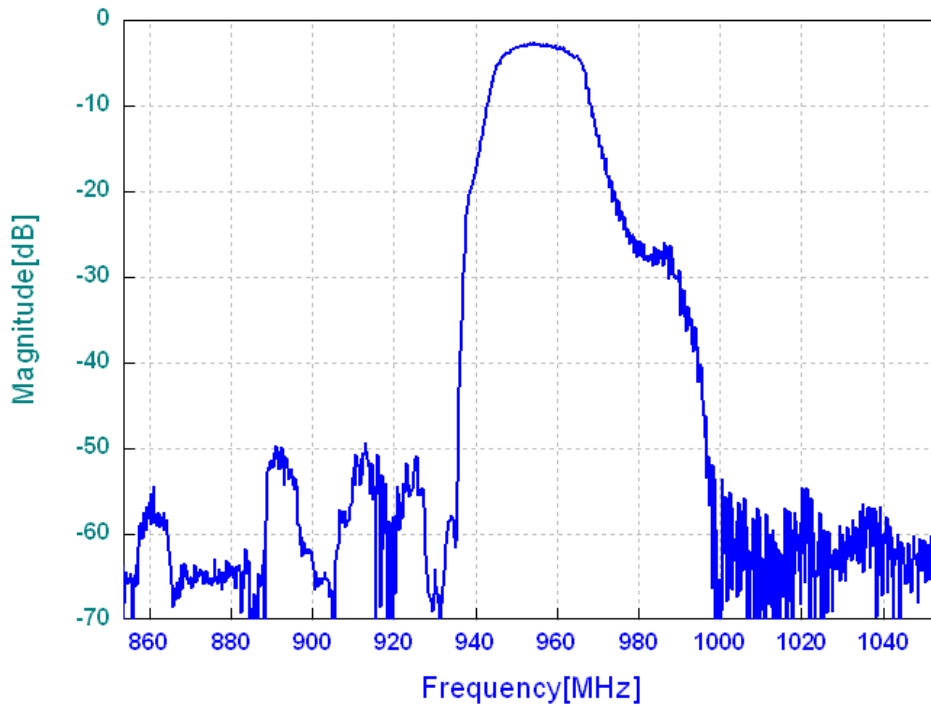
Testing Environment



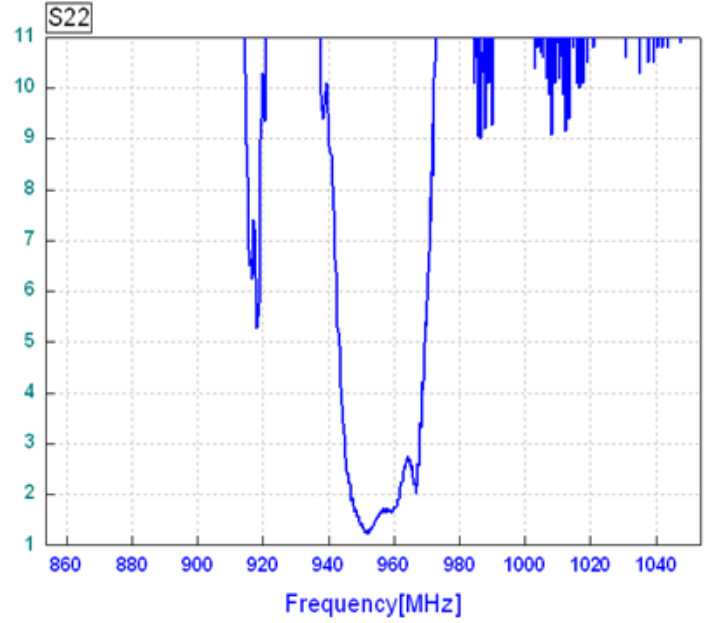
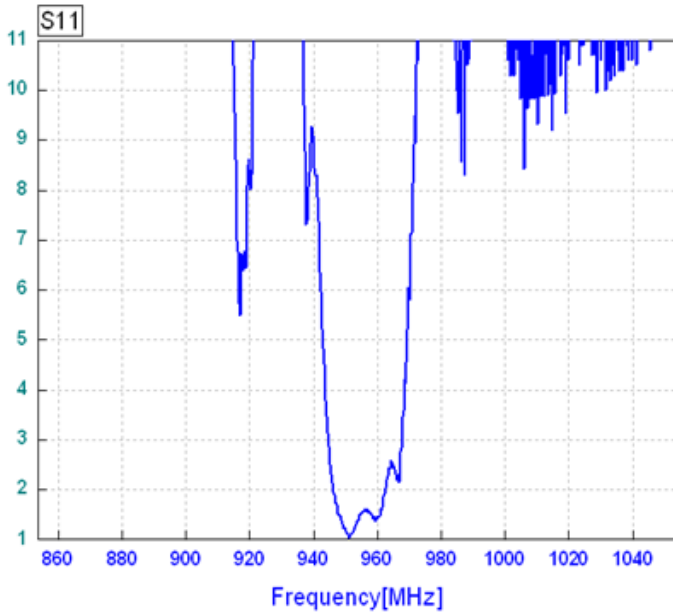
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

