



Total Solution Provider in Saw Device

SA1690CM1

Wireless, Balanced RF SAW Filter

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- Electrical Characteristics
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-

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□ Electrical Characteristics

Maximum Ratings

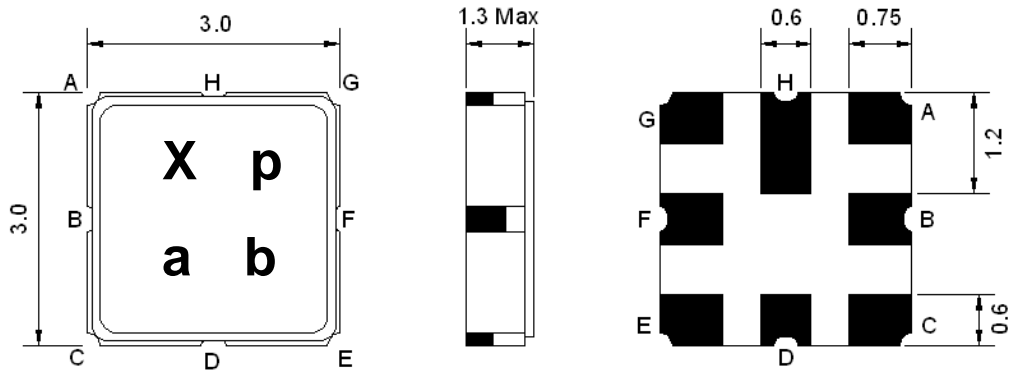
| Parameters Description | Unit | Minimum | Typical | Maximum |
|--|-----------------|---------|-----------|---------|
| Operating Temperature Range | °C | 0 | - | +70 |
| Storage Temperature Range | °C | -40 | - | +85 |
| Maximum DC Voltage | V | - | - | 3 |
| Maximum Input Power | dBm | - | - | 15 |
| Source Impedance (balanced ended) ⁽¹⁾ | Ω | - | 190 | - |
| Load Impedance (balanced ended) ⁽¹⁾ | Ω | - | 190 | - |
| Package type & size | M1 | | | |
| 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 | - | 1690.0 | - |
| Insertion Loss within 1681.2 ~ 1698.8 MHz | dB | - | 3.0 | 3.5 |
| Amplitude Ripple within 1681.2 ~ 1698.8 MHz | dB _{p-p} | - | 0.8 | 1.5 |
| Group Delay Ripple within 1681.2 ~ 1698.8 MHz | ns _{p-p} | - | 15 | 20 |
| 3dB Bandwidth | MHz | - | 34 | 40 |
| 10dB Bandwidth | MHz | - | 42 | 50 |
| Attenuation | | | | |
| 1577.0 ~ 1626.0 MHz | dB | 47 | 52 | - |

Notes : (1) No Matching Network .

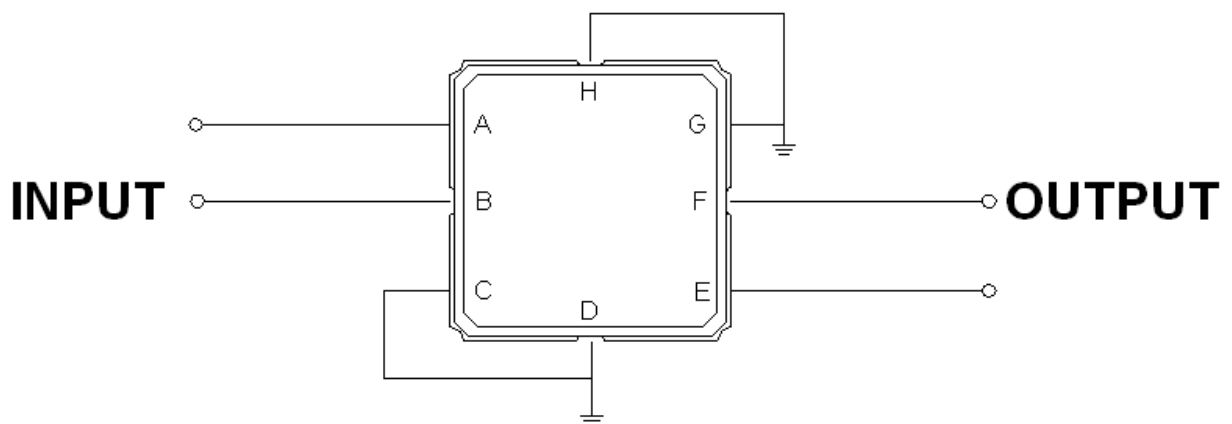
Package Dimensions



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

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

Testing Environment



Source Impedance : 190 Ω

Load Impedance : 190 Ω

□ Frequency Characteristics

Frequency Response

