



APPROVAL SHEET

| Approval Specification | Customer's Approval Certificate |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <p>TO:</p> <p>Part No.:</p> <p>Customer's Part No.:</p> | <p>Please return this copy as a certification of your approval</p> <p>Checked & Approved by:</p> <p>Date:</p> |

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|----------|---|-----------|
| Part No. | : | SF0502 |
| Pages | : | 6 |
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| Revision | : | 1.0 |

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|---------------------|----|
| Prepared by: | 梁浩 |
| Checked by: | |
| Approved by: | |

Application

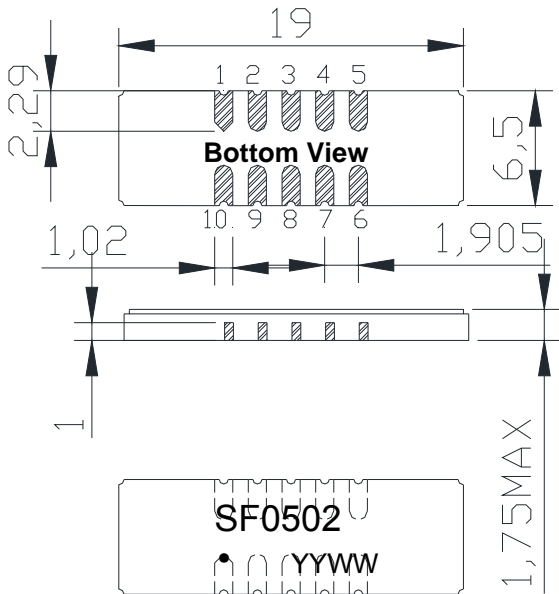
- Low -loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands

Features

- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 19.00x6.50x1.75mm³
- Package Code SMD19

- **Electrostatic Sensitive Device(ESD)**

Package Dimensions (Unit: mm)



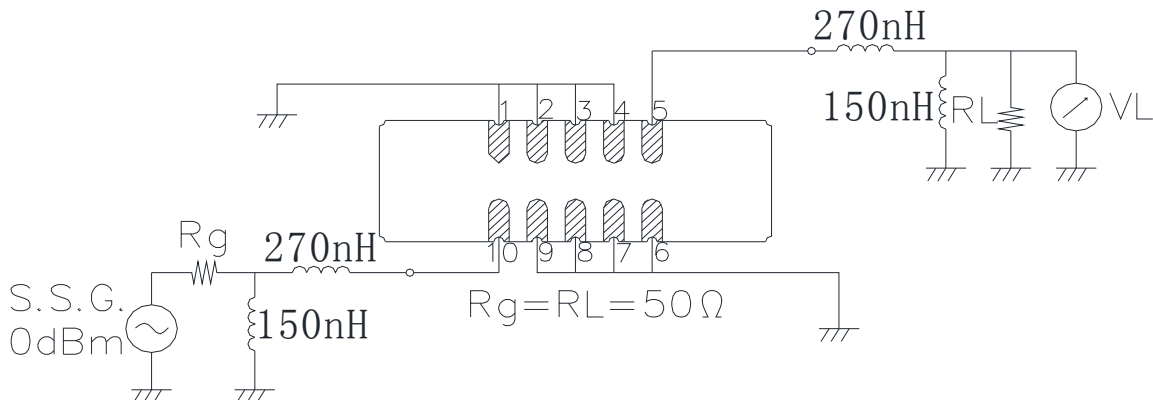
Pin Configuration

| Pin No. | Description |
|-----------------|-------------|
| 10 | Input |
| 5 | Output |
| 1,2,3,4,6,7,8,9 | Ground |

Marking Description

| | |
|-------------|-----------------------|
| S | Trademark |
| F | SAW Filter |
| 0502 | Part Number |
| ● | Pin 1 |
| YYWW | Year Code & Week Code |

Test Circuit(Bottom View)



*Fig: If the products produced in 06th week of 2012, The year code & week code is 1206.

Performance**Maximum Rating**

| Item | | Value | Unit |
|-----------------------|-----------|------------|------|
| DC Voltage | V_{DC} | 3 | V |
| Operation Temperature | T | -20~+70 | °C |
| Storage Temperature | T_{stg} | -55 ~ +125 | °C |
| RF Power Dissipation | P | 10 | dBm |

Electronic Characteristics

Test Temperature: $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$

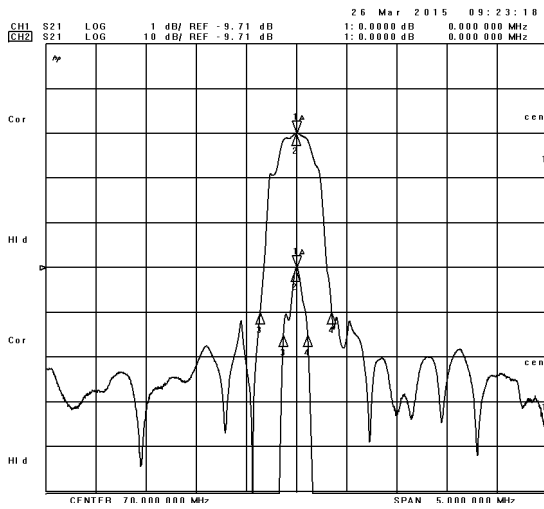
Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

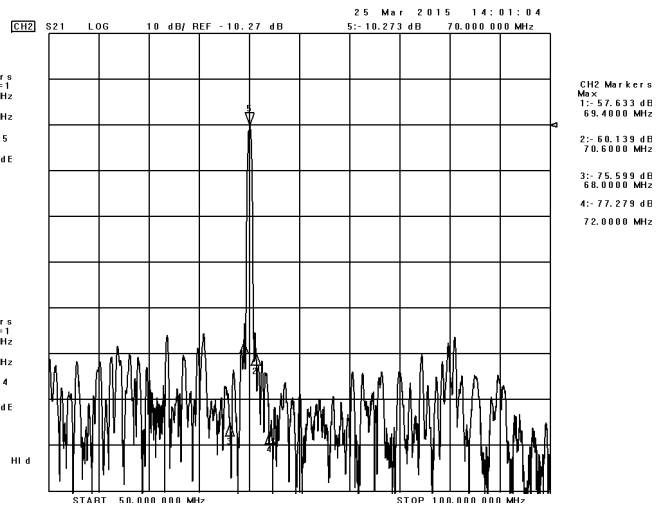
| Item | | Minimum | Typical | Maximum | Unit |
|----------------------|----------------|---------|---------|---------|------|
| Center Frequency | f_c | | 70.00 | | MHz |
| Insertion Loss(min) | IL | | 9.7 | 10.0 | dB |
| Absolute Attenuation | α | | | | |
| | 68.00-69.40MHz | 40.0 | 42.0 | | dB |
| | 70.60-72.00MHz | 40.0 | 44.0 | | dB |

Frequency Characteristics

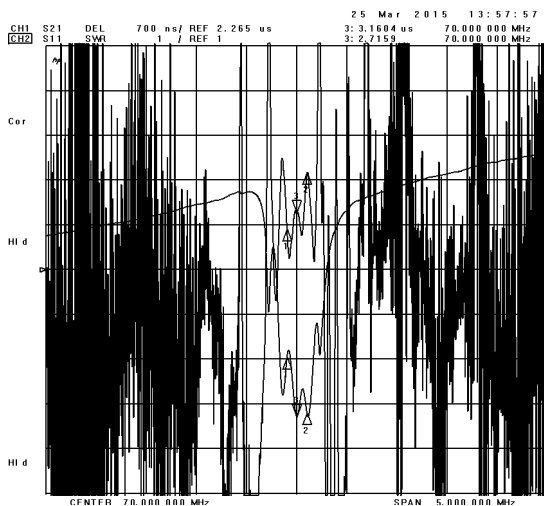
Frequency Response



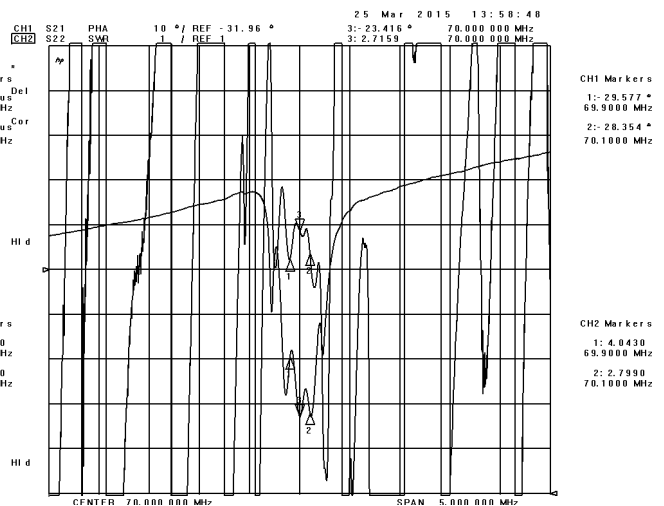
Frequency Response (wideband)



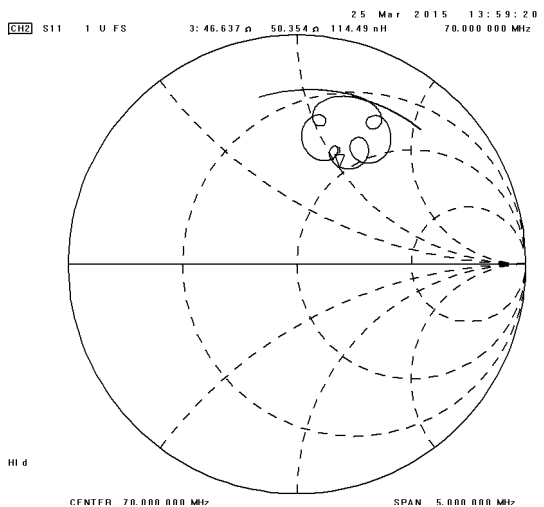
Delay Ripple & S11 VSWR



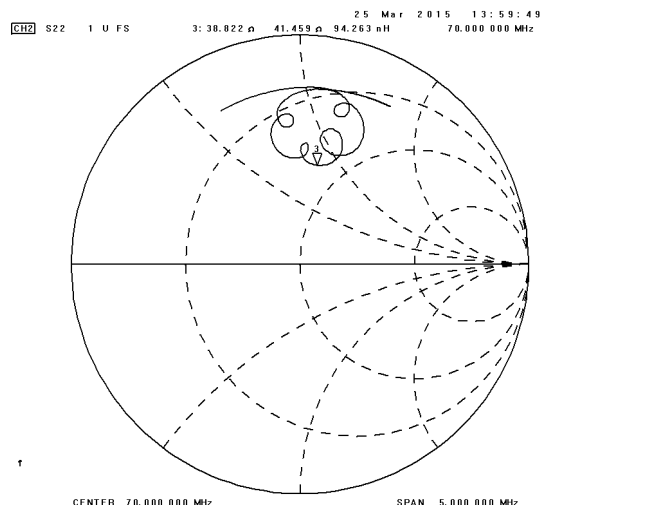
Phase Linearity & S22 VSWR



S11 Smith Chart



S22 Smith Chart



Notes

1. As a result of the particularity of inner structure of SAW products, it easy to be breakdown by electrostatic, so we should pay attention to **ESD protect** in the test.
2. **Static voltage** between signal load and ground may cause deterioration and destruction of the component. Please avoid static voltage.
3. **Ultrasonic cleaning** may cause deterioration and destruction of the component. Please avoid ultrasonic cleaning.
4. Only leads of component may **be soldered**. Please avoid soldering another part of component.
5. There is a close relationship between the device's performance and **matching network**. The specifications of this device are based on the test circuit shown above. L and C values may change depending on board layout. Values shown are intended as a guide only.