



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> |

BEIJING ZHONGXUN SIFANG SCIENCE & TECHNOLOGY CO.,LTD.

Tel: +86-010-62968745
 Fax: +86-010-62973654
 E-mail: bjzxsf@bjzxsf.net
 Website: <http://www.bjzxsf.net>
 Add: NO.7 NieGeZhuang Rd,SuJiaTuo Town,
 HaiDian District,Beijing,P.R.China

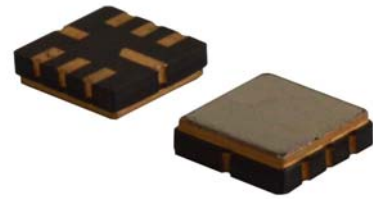


| | | |
|----------|---|-----------|
| Part No. | : | SF7129 |
| Pages | : | 6 |
| Date | : | 2013/3/13 |
| Revision | : | 1.0 |

| | |
|---------------------|-----|
| Prepared by: | 郑宝琴 |
| Checked by: | |
| Approved by: | |

Application

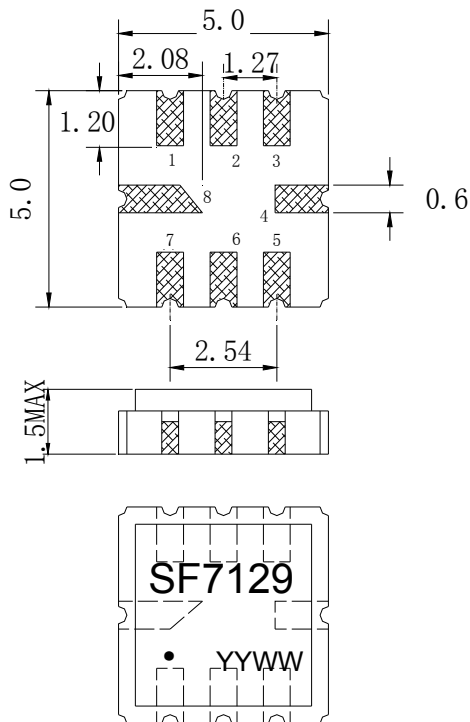
- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 10 MHz



Features

- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 5.00x5.00x1.50mm³
- Package Code QCC8C
- **Electrostatic Sensitive Device(ESD)**

Package Dimensions (Unit: mm)



Pin Configuration

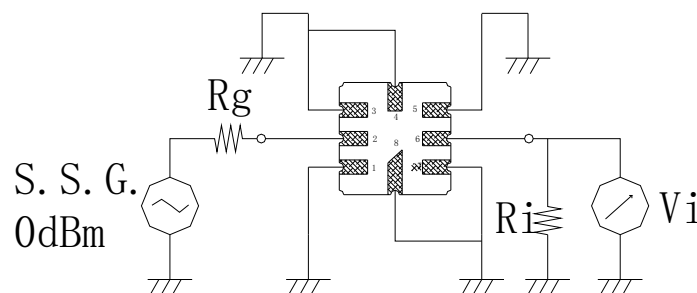
| Pin No. | Description |
|-------------|-------------|
| 2 | Input |
| 6 | Output |
| 1,3,4,5,7,8 | Ground |

Marking Description

| | |
|-------------|-----------------------|
| S | Trademark |
| F | SAW Filter |
| 7129 | Part Number |
| ● | Pin 1 |
| YYWW | Year Code & Week Code |

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

Test Circuit



Performance**Maximum Rating**

| Item | | Value | Unit |
|-----------------------|-----------|------------|------|
| DC Voltage | V_{DC} | 3 | V |
| Operation Temperature | T | -40 ~ +85 | °C |
| Storage Temperature | T_{stg} | -55 ~ +125 | °C |
| RF Power Dissipation | P | 10 | dBm |

Electronic Characteristics

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

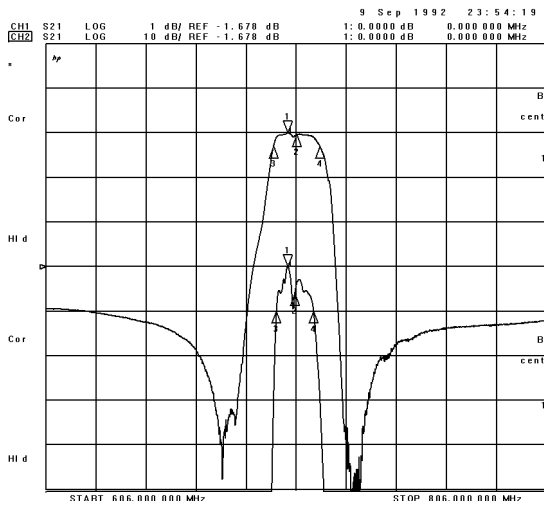
Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

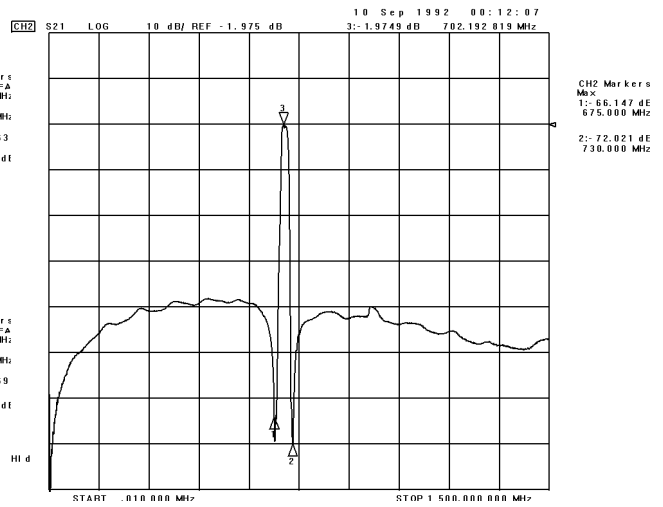
| Item | | Minimum | Typical | Maximum | Unit |
|--|-------------------|---------|---------|---------|------|
| Center Frequency | f_c | 705.2 | 706.0 | 706.8 | MHz |
| Insertion Loss(min) | IL | | 1.7 | 5.0 | dB |
| Amplitude Ripple (p-p) 702.00-710.00MHz | Δa | | 0.9 | 1.5 | dB |
| 1 dB Bandwidth | BW_{1dB} | 8.0 | 14.5 | | MHz |
| 3 dB Bandwidth | BW_{3dB} | 10.0 | 18.0 | | MHz |
| 40 dB Bandwidth | BW_{40dB} | | 36.5 | 42.0 | MHz |
| 50 dB Bandwidth | BW_{50dB} | | 39.0 | 46.5 | MHz |
| Absolute Attenuation | a | | | | |
| | DC -675.00 MHz | 35.0 | 38.0 | | dB |
| | 730.00-1500.00MHz | 35.0 | 38.0 | | dB |

Frequency Characteristics

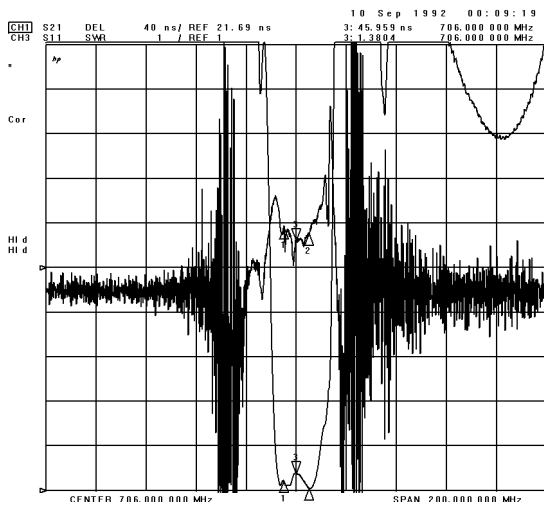
Frequency Response



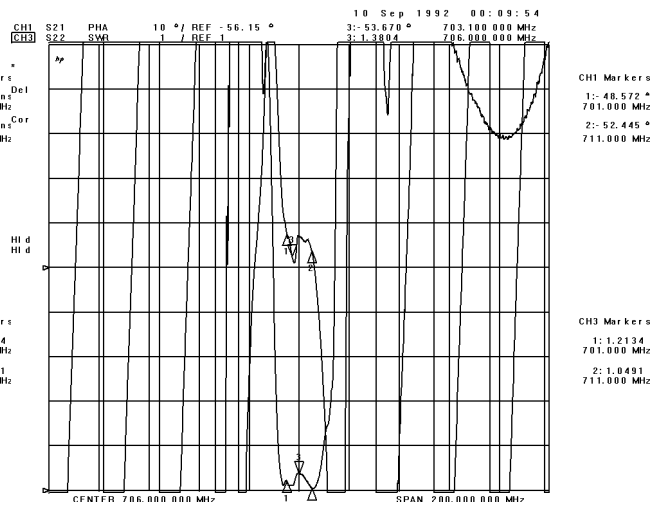
Frequency Response (wideband)



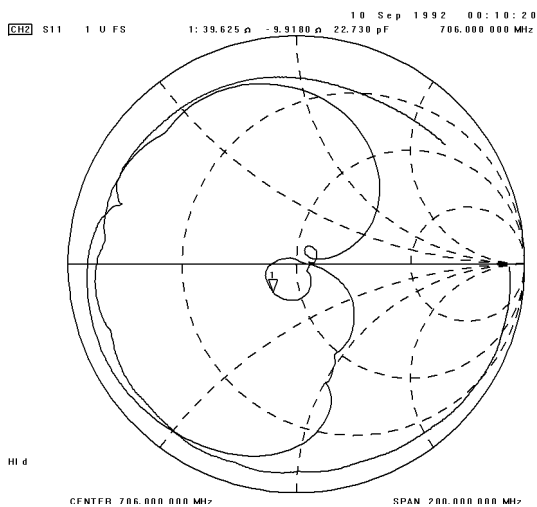
Delay Ripple & S11 VSWR



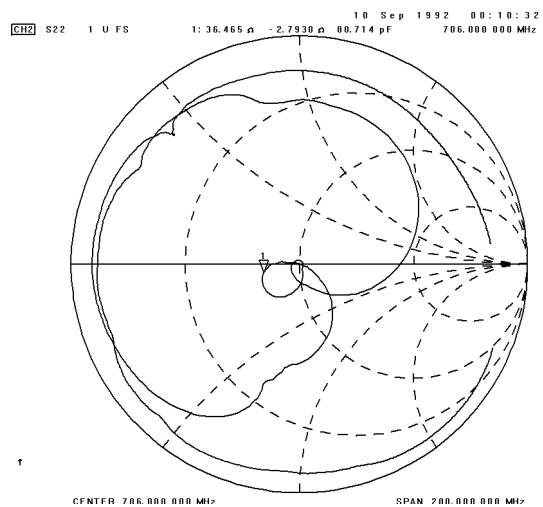
Phase Linearity & S22 VSWR



S11 Smith Chart



S22 Smith Chart



Packing Information

Carrier Tape



* B0: 5.35 for QCC8C; 4.15 for DCC6/QCC8B; 3.35 for DCC6C/QCC8D

Reel Dimensions



Outer Packing

| Type | Quantity | Dimension | Description | Weight |
|--------------|----------|-------------|-------------------------------------|--------|
| Internal box | 1000 | 190×188×42 | carton box 2 reel / internal box | 0.18 |
| External box | 10000 | 235×205×210 | 5 boxes / external box | 1.80 |

Unit: mm

Unit: kg

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.