



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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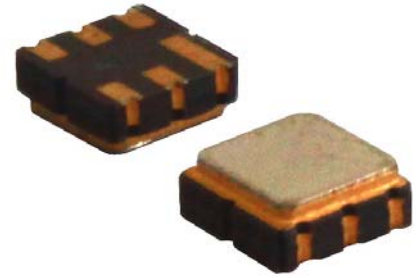


| | | |
|----------|---|------------|
| Part No. | : | SF5117 |
| Pages | : | 6 |
| Date | : | 2012/12/14 |
| Revision | : | 1.0 |

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

Application

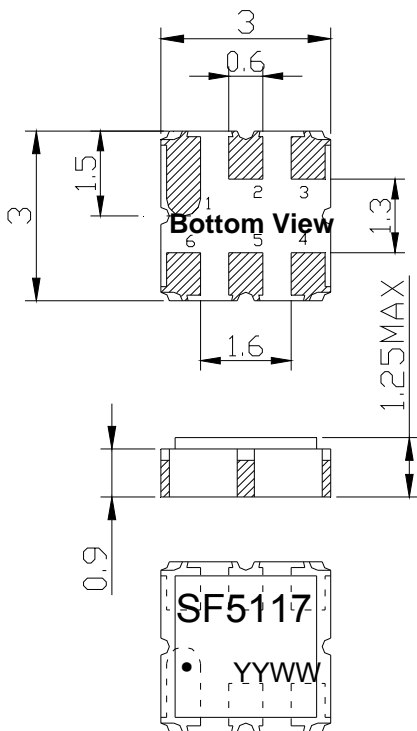
- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 5 MHz



Features

- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 3.00x3.00x1.25mm³
- Package Code DCC6C
- **Electrostatic Sensitive Device(ESD)**

Package Dimensions (Unit: mm)



Pin Configuration

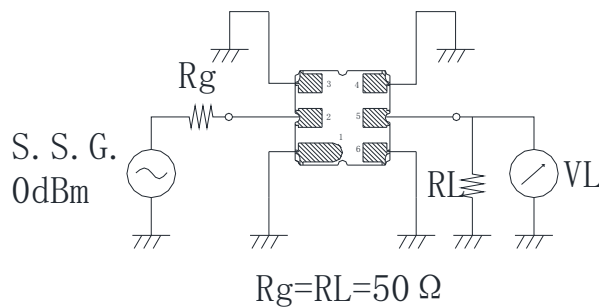
| Pin No. | Description |
|---------|-------------|
| 2 | Input |
| 5 | Output |
| 1,3,4,6 | Ground |

Marking Description

| | |
|-------------|-----------------------|
| S | Trademark |
| F | SAW Filter |
| 5117 | 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(Bottom View)



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°C ± 2°C

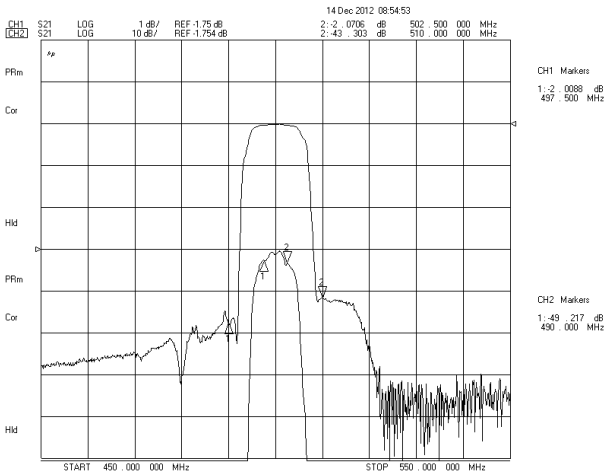
Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

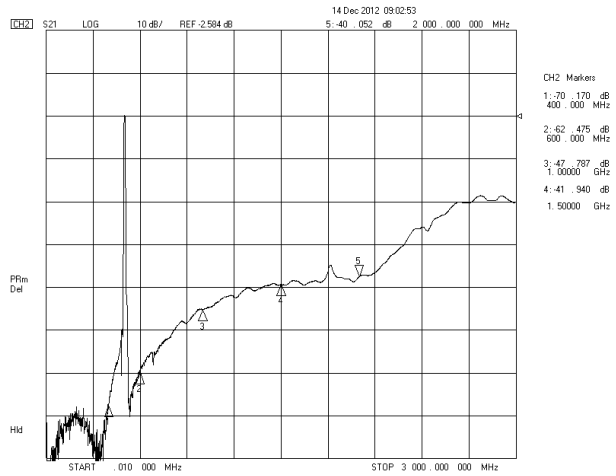
| Item | | Minimum | Typical | Maximum | Unit |
|------------------------|----------------|---------|---------|---------|------|
| Center Frequency | f _c | | 500.00 | | MHz |
| Insertion Loss(min) | IL | | 1.8 | 2.3 | dB |
| Insertion Loss | IL | | 2.2 | 3.0 | dB |
| Amplitude Ripple (p-p) | Δa | | 0.5 | 1.0 | dB |
| Group Delay Ripple | GDR | | 25.0 | 40.0 | ns |
| Absolute Attenuation | a | | | | |
| | | 50.0 | 55.0 | | dB |
| | | 45.0 | 50.0 | | dB |
| | | 40.0 | 45.0 | | dB |
| | | 30.0 | 35.0 | | dB |
| | | 40.0 | 50.0 | | dB |
| | | 45.0 | 50.0 | | dB |
| | | 35.0 | 40.0 | | dB |
| | | 25.0 | 30.0 | | dB |
| | | 10.0 | 15.0 | | dB |
| Input VSWR | | | 1.6:1 | 2.0:1 | / |
| Output VSWR | | | 1.6:1 | 2.0:1 | / |

Frequency Characteristics

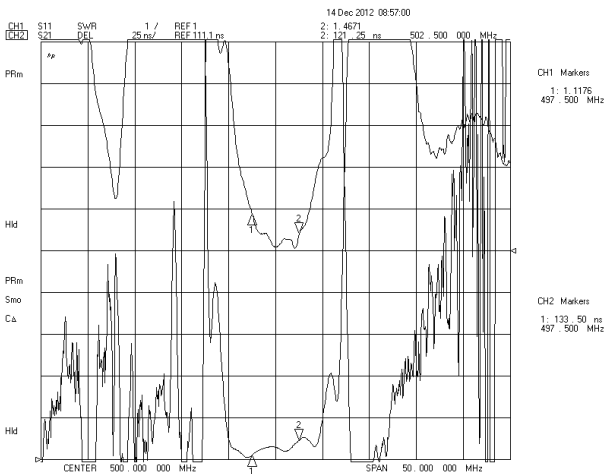
Frequency Response



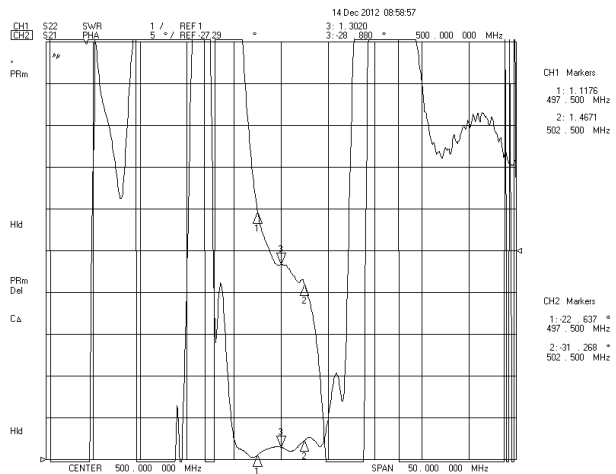
Frequency Response (wideband)



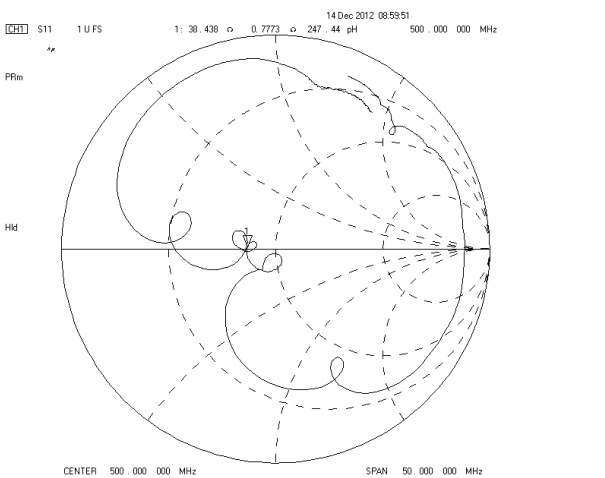
Delay Ripple & S11 VSWR



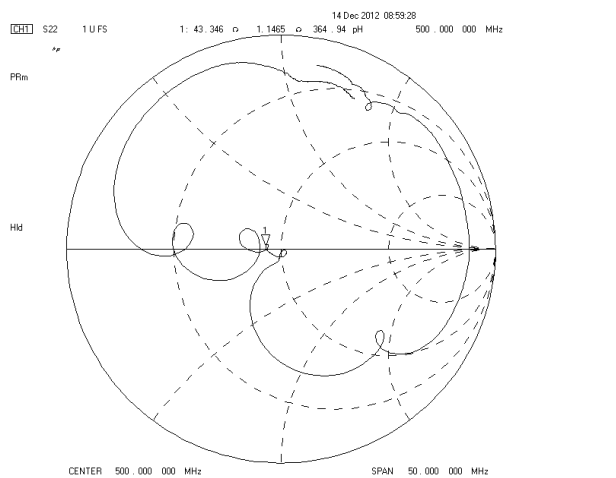
Phase Linearity & S22 VSWR



S11 Smith Chart



S22 Smith Chart



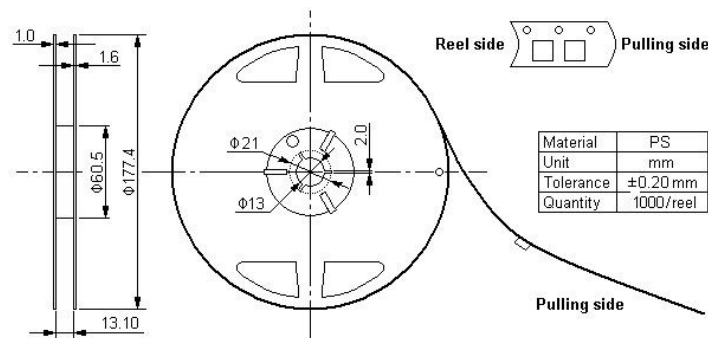
Packing Information

Carrier Tape



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

Reel Dimensions



| | |
|-----------|-----------|
| Material | PS |
| Unit | mm |
| Tolerance | ±0.20 mm |
| Quantity | 1000/reel |

Outer Packing

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

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.