



APPROVAL SHEET

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

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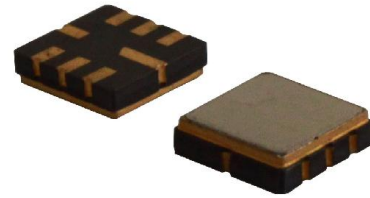


| | | |
|----------|---|------------|
| Part No. | : | SF2521 |
| Pages | : | 6 |
| Date | : | 2016/11/14 |
| Revision | : | 1.0 |

| | |
|---------------------|-----|
| Prepared by: | 刘建伟 |
| Checked by: | 卢翠 |
| Approved by: | 刘建伟 |

Application

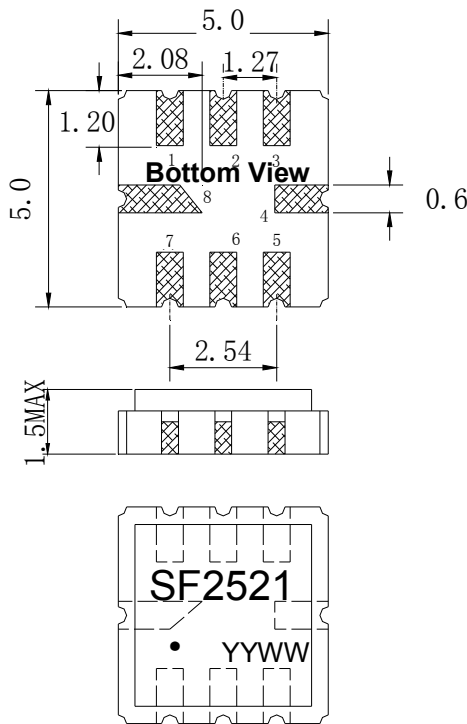
- Low -loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Passband 480 KHz



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

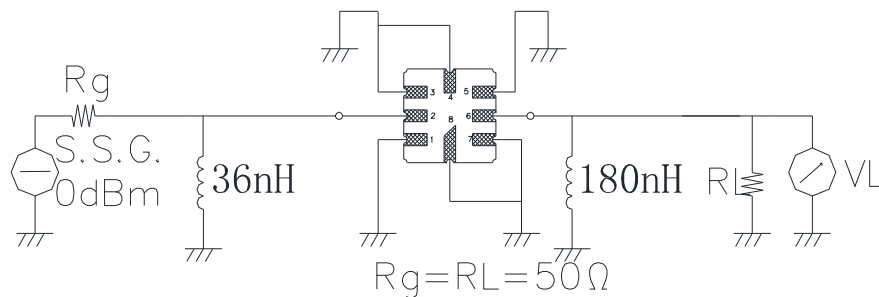
| Pin No. | Description |
|-------------|-------------|
| 2 | Input |
| 6 | Output |
| 1,3,4,5,7,8 | Ground |

Marking Description

| | |
|-------------|-----------------------|
| S | Trademark |
| F | SAW Filter |
| 2521 | 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: $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$

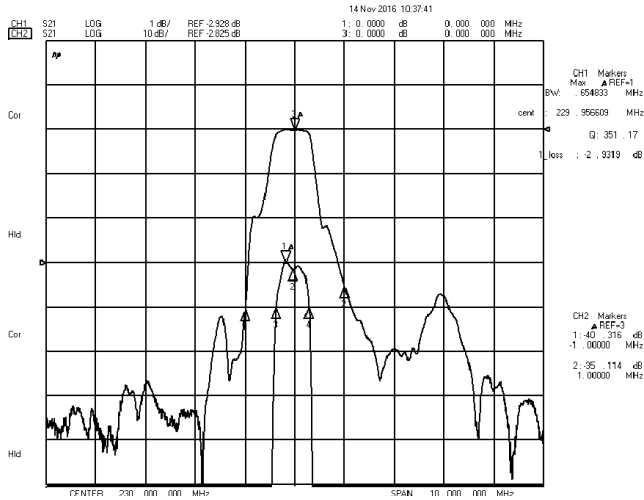
Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

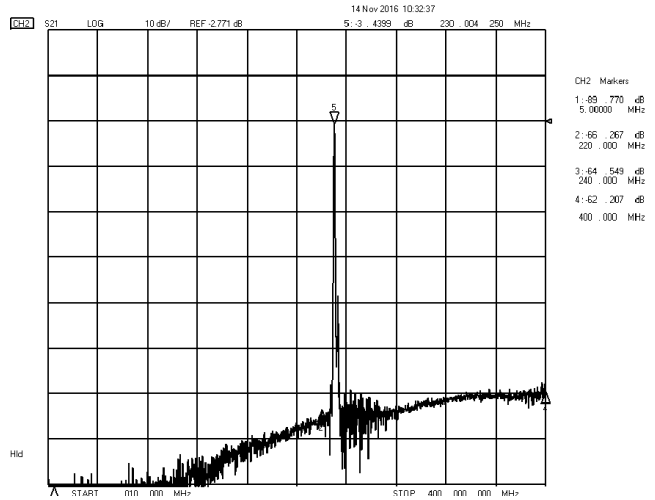
| Item | | Minimum | Typical | Maximum | Unit |
|------------------------|------------------|---------|---------|---------|------|
| Center Frequency | f_c | | 230.00 | | MHz |
| Insertion Loss(min) | IL | | 2.9 | 4.0 | dB |
| Amplitude Ripple (p-p) | $\Delta\alpha$ | | 0.3 | 1.0 | dB |
| 1 dB Bandwidth | BW_{1dB} | 480 | 654 | | KHz |
| Absolute Attenuation | α | | | | |
| | 5.00-220.00MHz | 50 | 66 | | dB |
| | F0-1.00MHz | 10 | 40 | | dB |
| | F0+1.00MHz | 10 | 35 | | dB |
| | 240.00-400.00MHz | 50 | 57 | | dB |

Frequency Characteristics

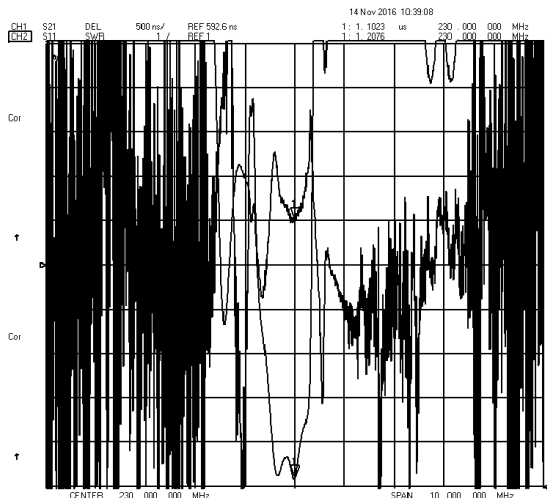
Frequency Response



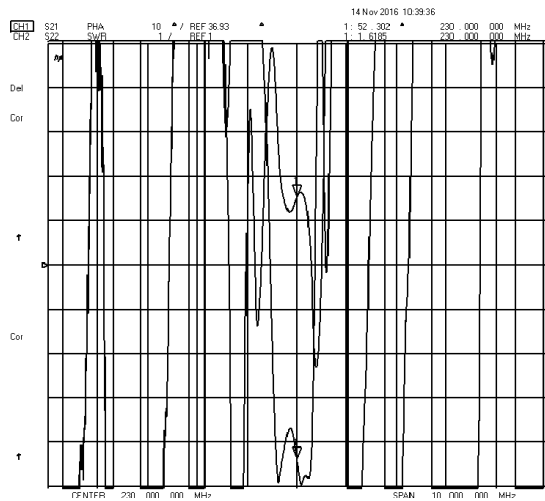
Frequency Response (wideband)



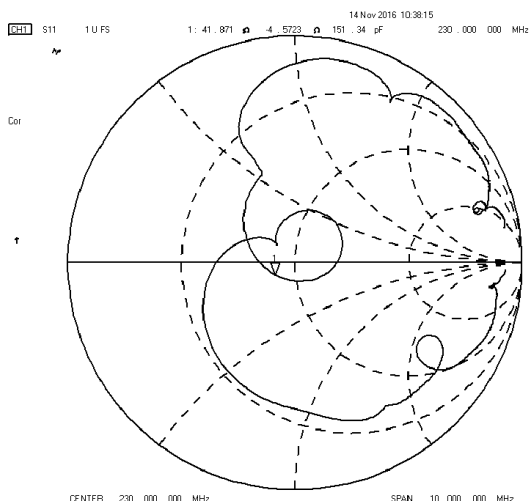
Delay Ripple & S11 VSWR



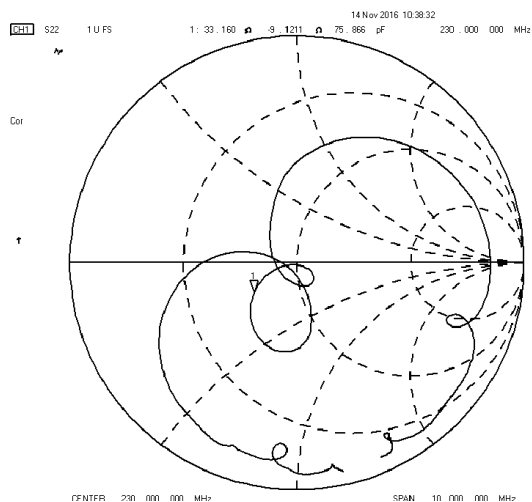
Phase Linearity & S22 VSWR



S11 Smith Chart

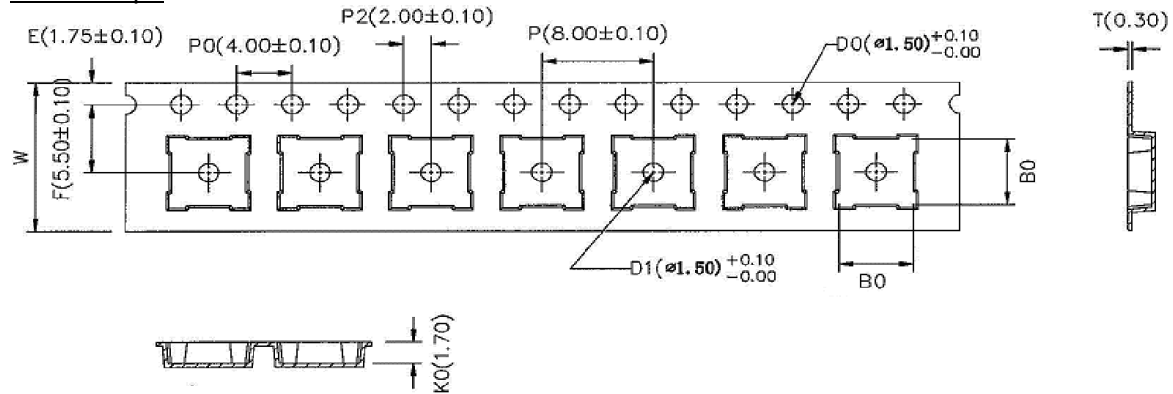


S22 Smith Chart



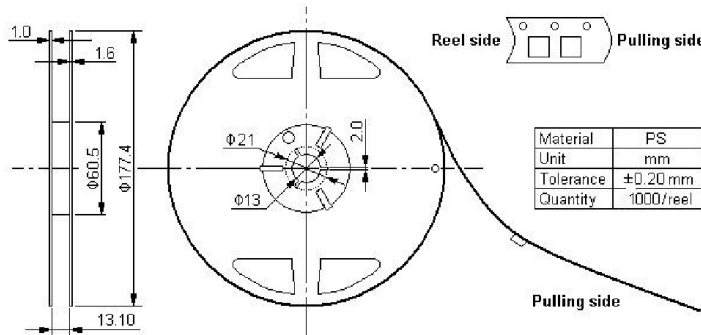
Packing Information

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 |

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.