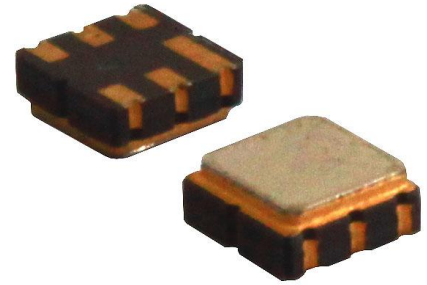


Application

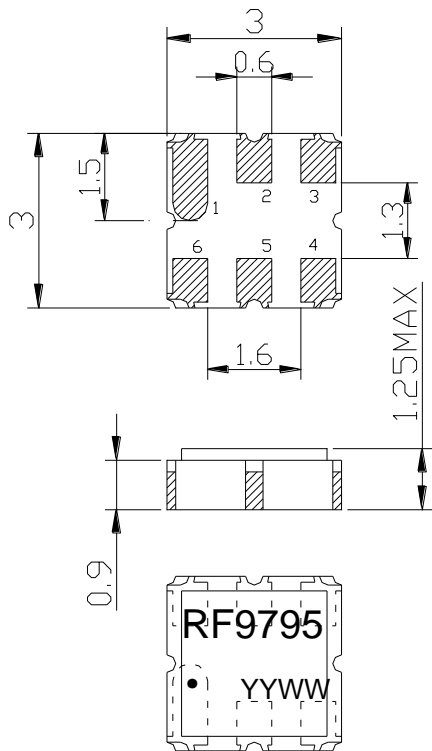
- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 2.0 MHz



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

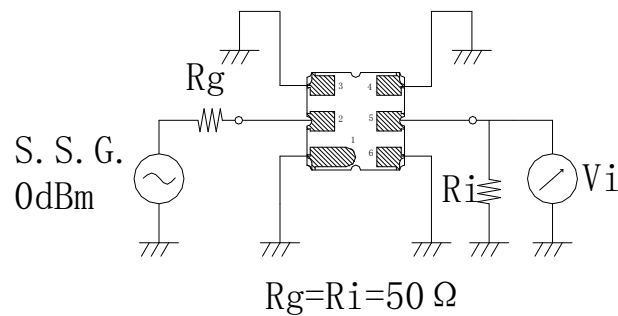
| Pin No. | Description |
|---------|-------------|
| 2 | Input |
| 5 | Output |
| 1,3,4,6 | Case Ground |

Marking Description

| | | |
|------|-----------------------|--------------|
| RF | R | Manufacturer |
| | F | SAW Filter |
| 9795 | Part Number | |
| ● | Pin 1 | |
| YYWW | Year Code & Week Code | |

*Fig: If the products produced in 06th week of 2015, The year code & week code is 1506.

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

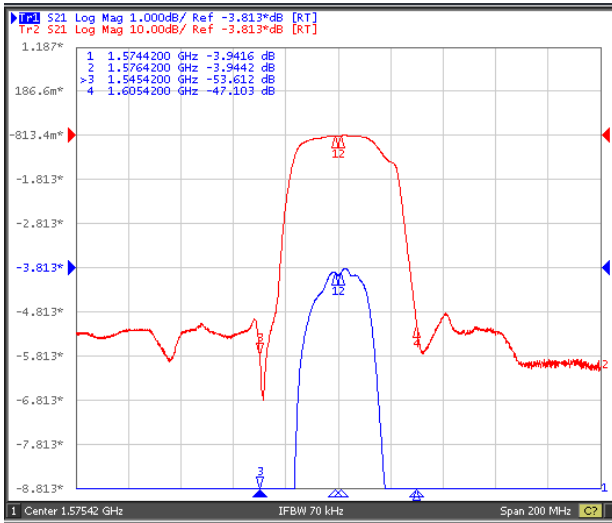
Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

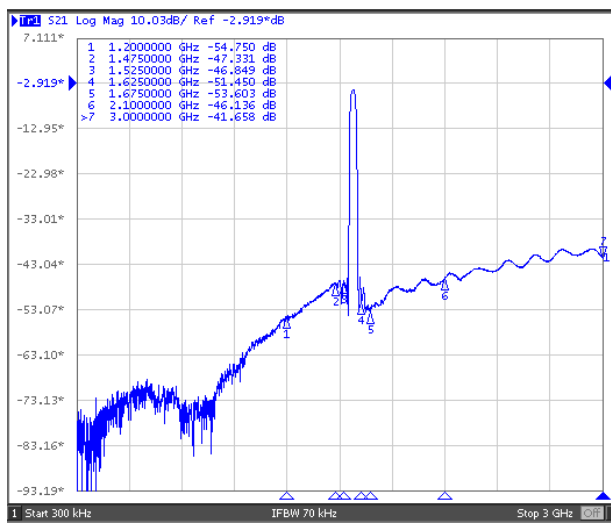
| Item | | Minimum | Typical | Maximum | Unit |
|------------------------|--|---------|---------|---------|------|
| Center Frequency | f_c | | 1575.42 | | MHz |
| Insertion Loss | 1574.42 – 1576.42MHz IL | | 4.0 | 4.5 | dB |
| Amplitude Ripple (p-p) | 1574.42 – 1576.42MHz $\Delta\alpha$ | | 0.3 | 1.0 | dB |
| Group Delay Ripple | 1574.42 – 1576.42MHz GDR | | 5.0 | 20.0 | ns |
| Absolute Attenuation | α | | | | |
| | DC - 1200.00 MHz | 45.0 | 50.0 | | dB |
| | 1200.00 - 1475.42 MHz | 35.0 | 40.0 | | dB |
| | 1525.42 MHz | 35.0 | 40.0 | | dB |
| | 1545.42 MHz | 35.0 | 40.0 | | dB |
| | 1555.42 MHz | 7.0 | 15.0 | | dB |
| | 1595.42 MHz | 3.0 | 6.0 | | dB |
| | 1605.42 MHz | 35.0 | 40.0 | | dB |
| | 1625.42 MHz | 35.0 | 40.0 | | dB |
| | 1675.42 -2100.00 MHz | 40.0 | 45.0 | | dB |
| | 2100.00- 3000.00 MHz | 30.0 | 35.0 | | dB |
| Input VSWR | 1574.42 – 1576.42MHz | | 1.5:1 | 2.0:1 | / |
| Output VSWR | 1574.42 – 1576.42MHz | | 1.5:1 | 2.0:1 | / |

Frequency Characteristics

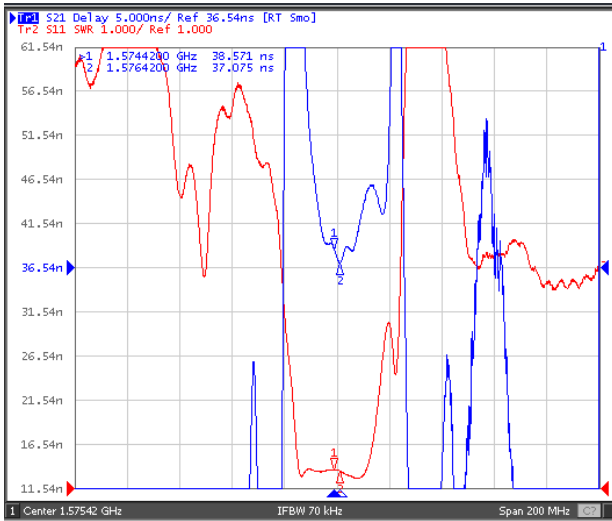
Frequency Response



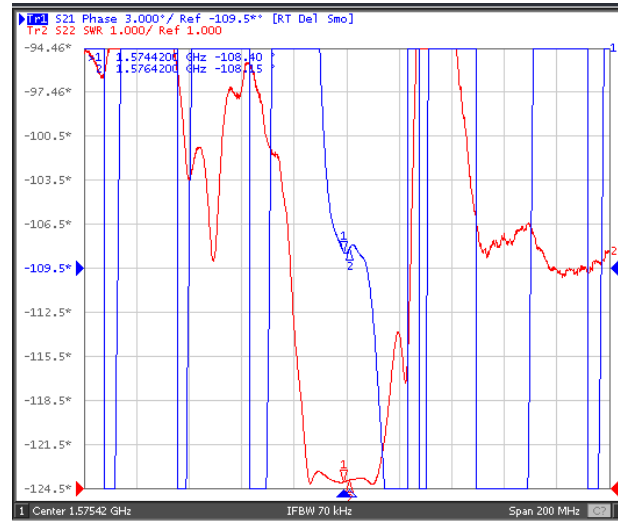
Frequency Response (wideband)



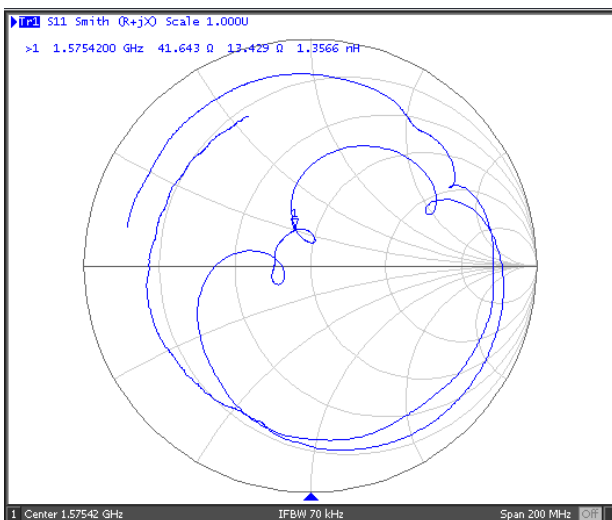
Delay Ripple & S11 VSWR



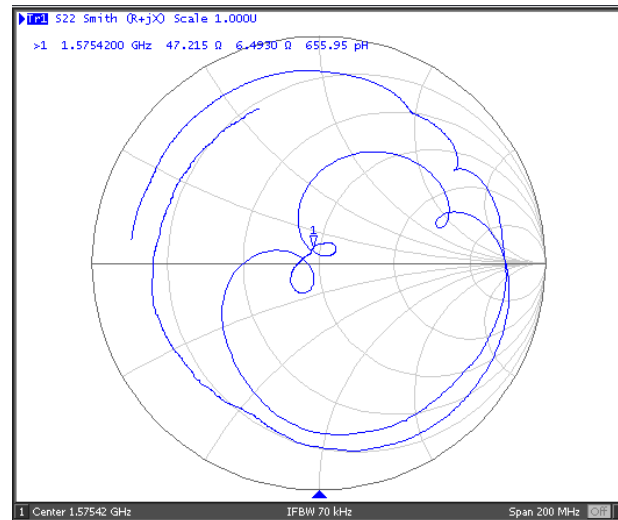
Phase Linearity & S22 VSWR



S11 Smith Chart

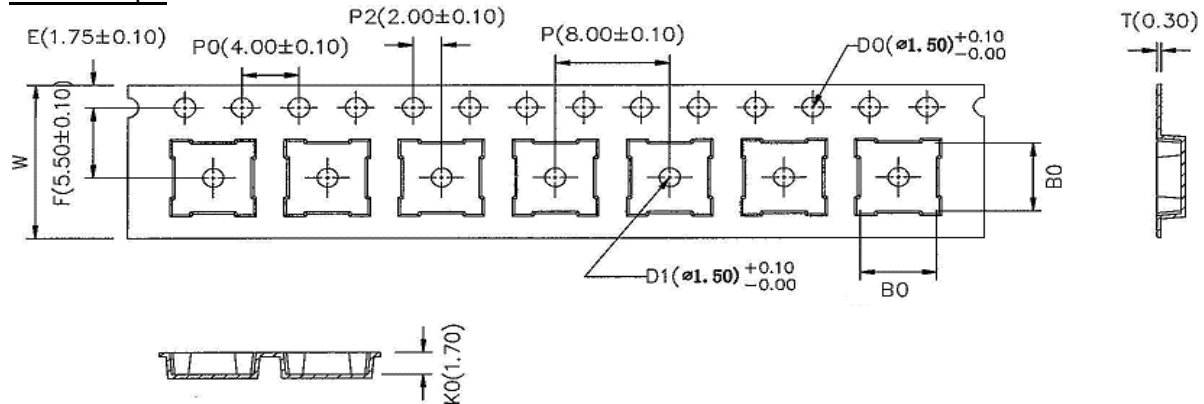


S22 Smith Chart



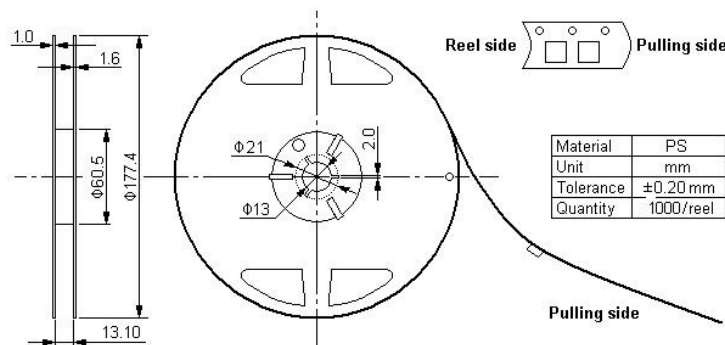
Packing Information

Carrier Tape



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

Reel Dimensions



Outer Packing

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