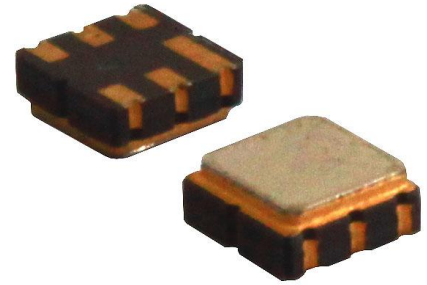


**Application**

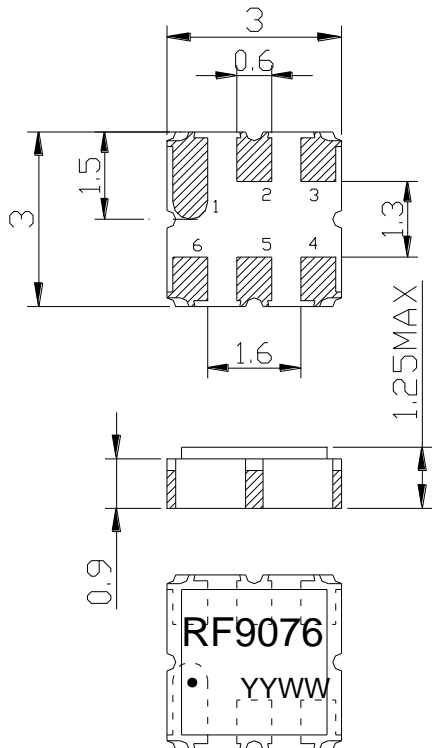
- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 4.0 MHz



**Features**

- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 3.00x3.00x1.25mm<sup>3</sup>
- Package Code DCC6C
- **Electrostatic Sensitive Device(ESD)**

**Package Dimensions (Unit: mm)**



**Pin Configuration**

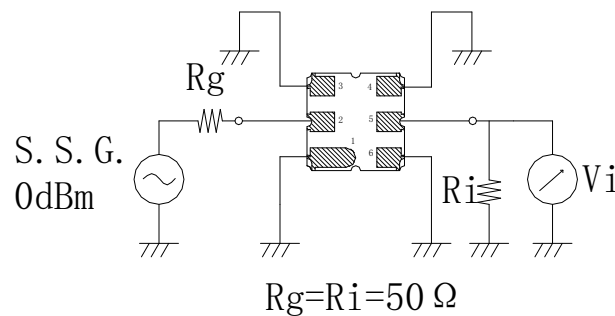
Pin No.	Description
2	Input
5	Output
1,3,4,6	Case Ground

**Marking Description**

RF	R	Manufacturer
	F	SAW Filter
9076	Part Number	
●	Pin 1	
YYWW	Year Code & Week Code	

\*Fig: If the products produced in 06<sup>th</sup> 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:  $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$

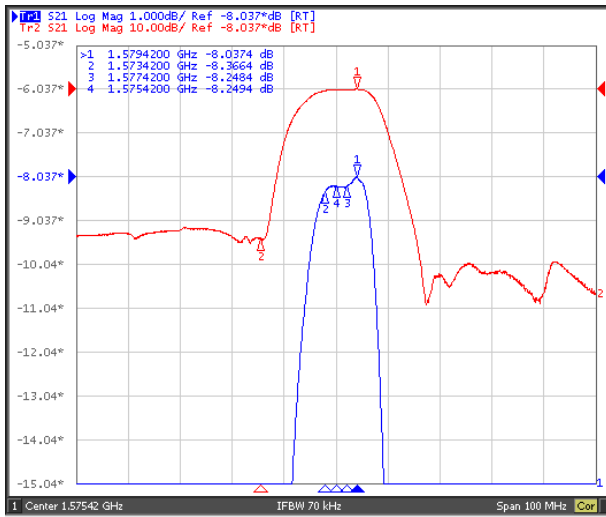
Terminating source impedance:  $50\Omega$

Terminating load impedance:  $50\Omega$

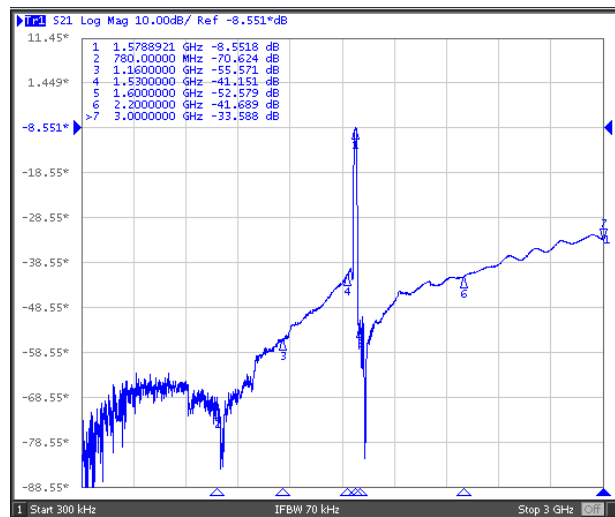
Item		Minimum	Typical	Maximum	Unit
Center Frequency	$f_c$		1575.42		MHz
Insertion Loss(min)	IL		8.0	9.5	dB
Insertion Loss 1573.42 – 1577.42MHz	IL		8.5	10.5	dB
Amplitude Ripple (p-p) 1573.42 – 1577.42MHz	$\Delta a$		0.8	2.0	dB
Group Delay Ripple 1573.42 – 1577.42MHz	GDR		20.0	60.0	ns
Absolute Attenuation	$a$				
DC - 780.00 MHz		50.0	55.0		dB
780.00 - 1160.00 MHz		40.0	45.0		dB
1160.00 - 1530.00 MHz		25.0	30.0		dB
1561.00 MHz		15.0	30.0		dB
1600.00 - 2200.00 MHz		25.0	30.0		dB
2200.00 -3000.00 MHz		20.0	25.0		dB
Input VSWR 1573.42 – 1577.42MHz			1.8:1	2.0:1	/
Output VSWR 1573.42 – 1577.42MHz			1.8:1	2.0:1	/

Frequency Characteristics

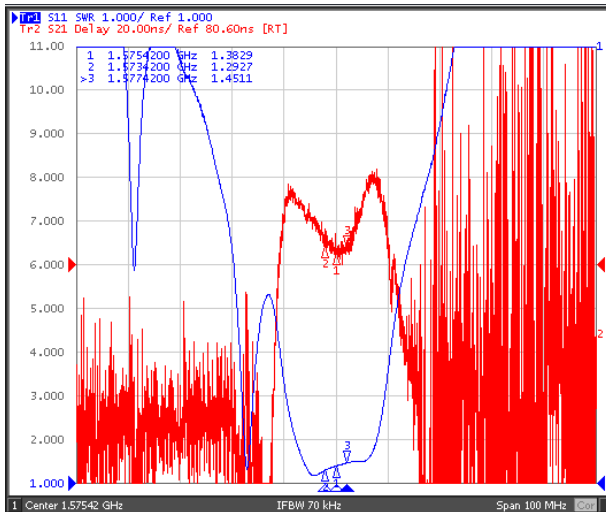
Frequency Response



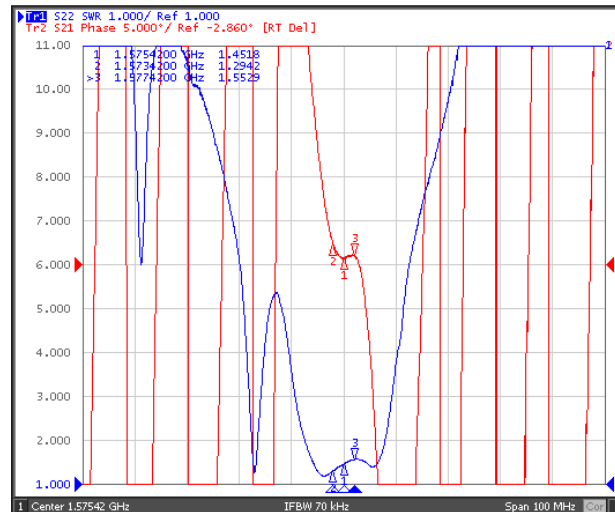
Frequency Response (wideband)



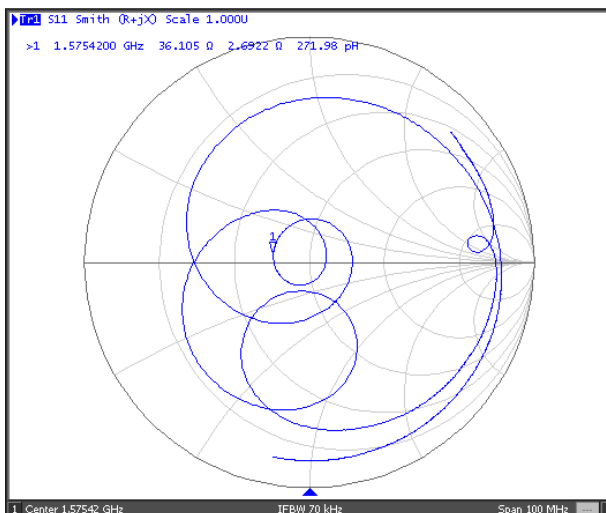
Delay Ripple & S11 VSWR



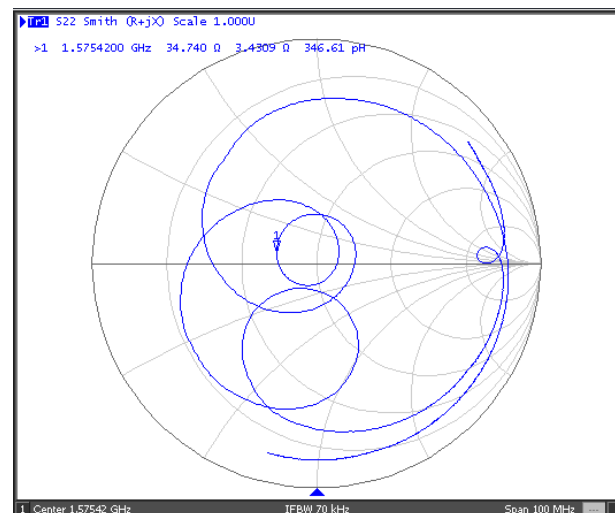
Phase Linearity & S22 VSWR



S11 Smith Chart



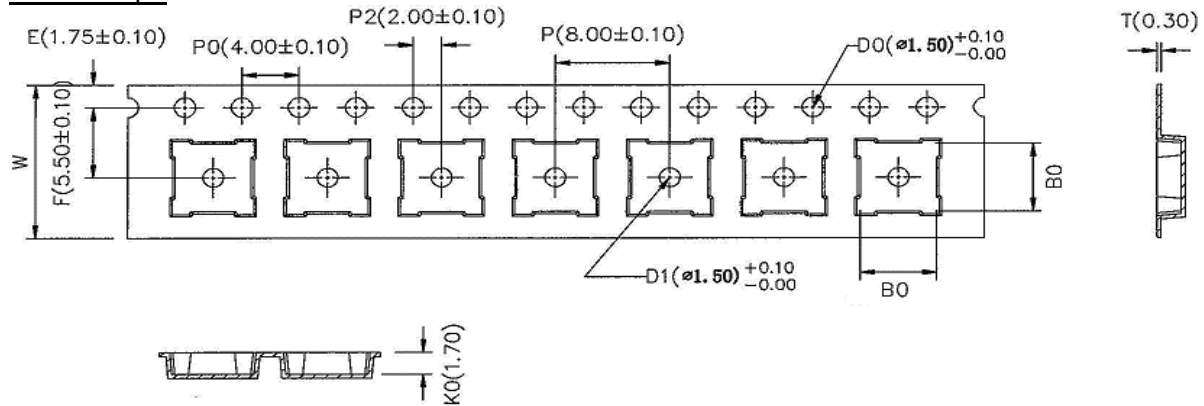
S22 Smith Chart





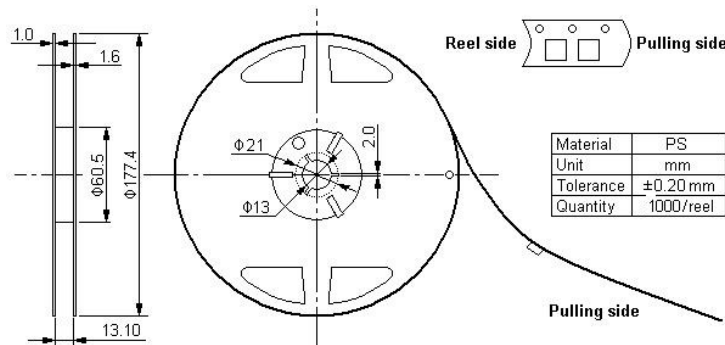
Packing Information

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.