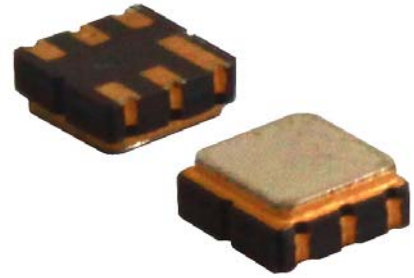


**Application**

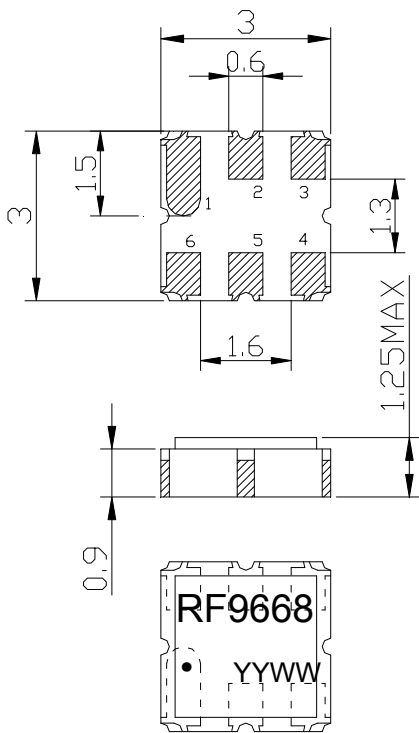
- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 65.0 MHz



**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**

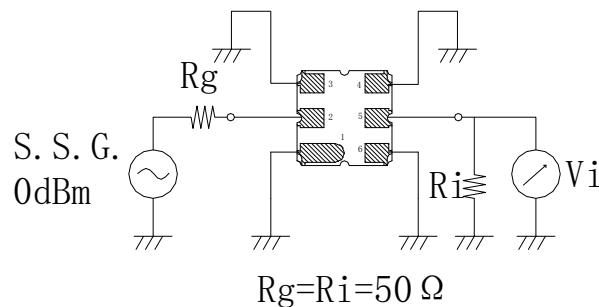
Pin No.	Description
2	Input
5	Output
1,3,4,6	Case Ground

**Marking Description**

SF	SF	Trademark
	F	SAW Filter
9668	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	$V_{DC}$	5	V
Operation Temperature	T	-40 ~ +125	°C
Storage Temperature	$T_{stg}$	-40 ~ +125	°C
RF Power Dissipation	P	10	dBm

**Electronic Characteristics**

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

Terminating source impedance:  $50\Omega$

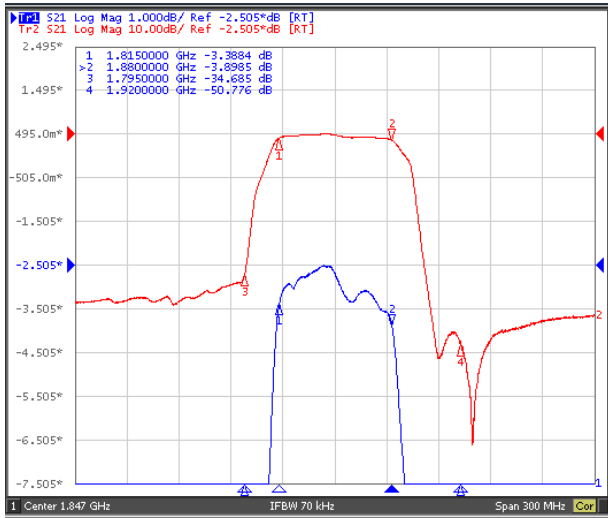
Terminating load impedance:  $50\Omega$

Item		Minimum	Typical	Maximum	Unit
Center Frequency	$f_c$		1847.50		MHz
Insertion Loss(min)	IL		2.5	3.0	dB
Insertion Loss 1815.00 - 1880.00 MHz	IL		3.8	5.0	dB
Amplitude Ripple (p-p) 1815.00 - 1880.00 MHz	$\Delta\alpha$		1.3	2.5	dB
Group Delay Ripple 1815.00 - 1880.00 MHz	GDR		25.0	80.0	ns
Absolute Attenuation	$\alpha$				
DC - 1500.00 MHz		35.0	40.0		dB
1500.00 -1795.00 MHz		26.0*	30.0		dB
1920.00 -2100.00 MHz		30.0	35.0		dB
2100.00 -3000.00 MHz		25.0	30.0		dB
Input VSWR 1815.00 - 1880.00 MHz			1.5:1	2.0:1	/
Output VSWR 1815.00 - 1880.00 MHz			1.5:1	2.0:1	/

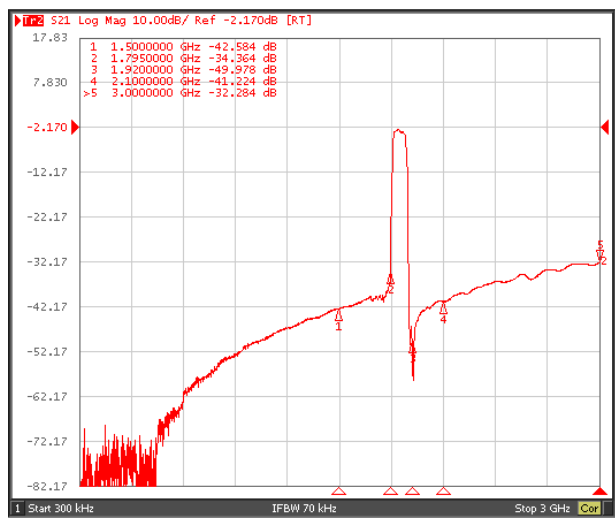
\* :  $+25^{\circ}\text{C}$

Frequency Characteristics

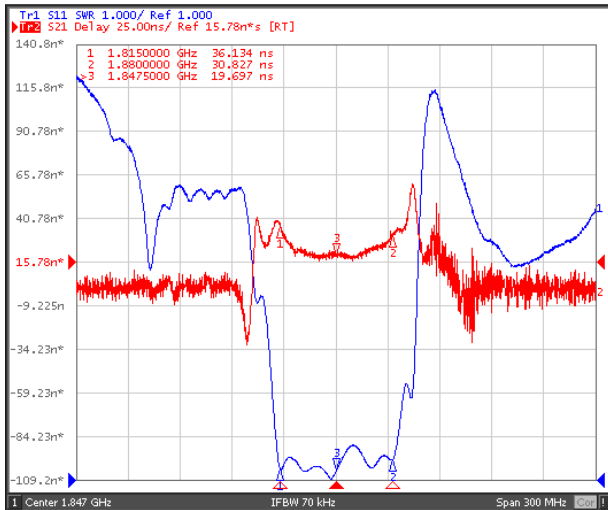
Frequency Response



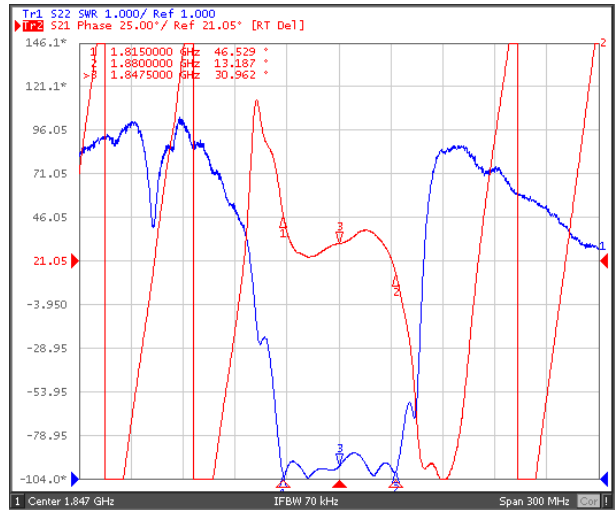
Frequency Response (wideband)



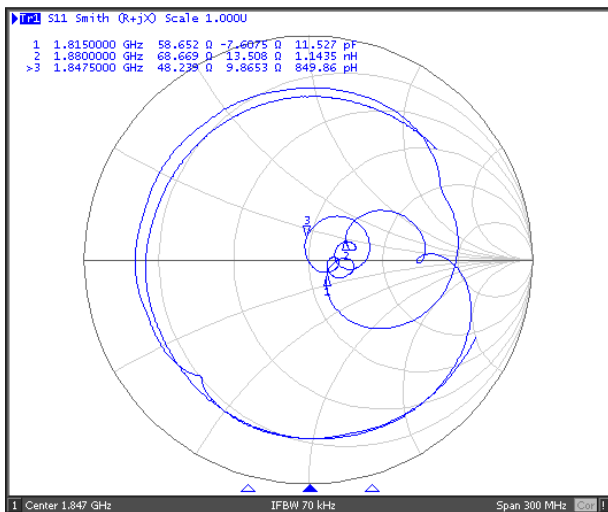
Delay Ripple & S11 VSWR



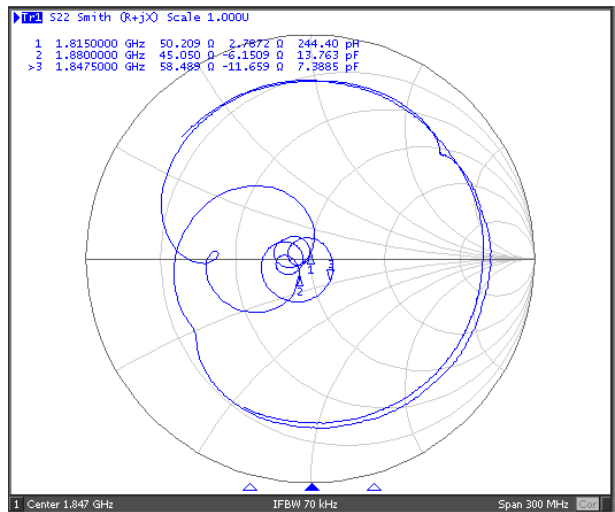
Phase Linearity & S22 VSWR



S11 Smith Chart



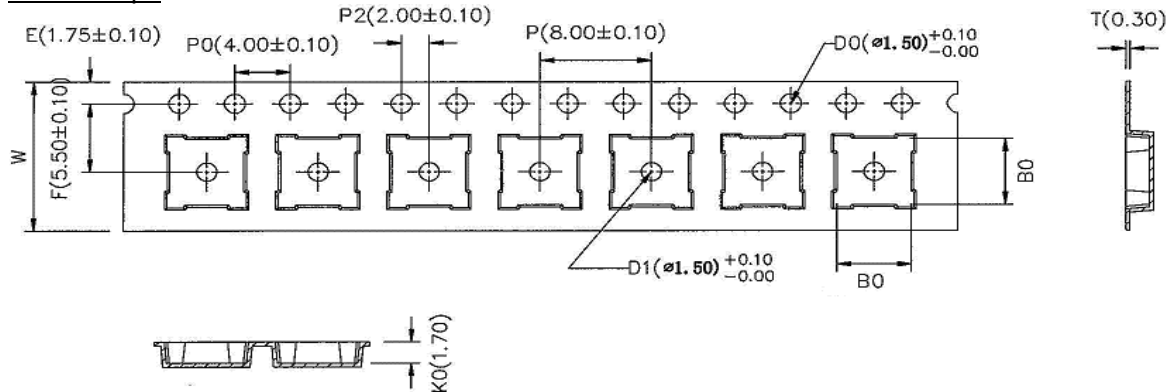
S22 Smith Chart





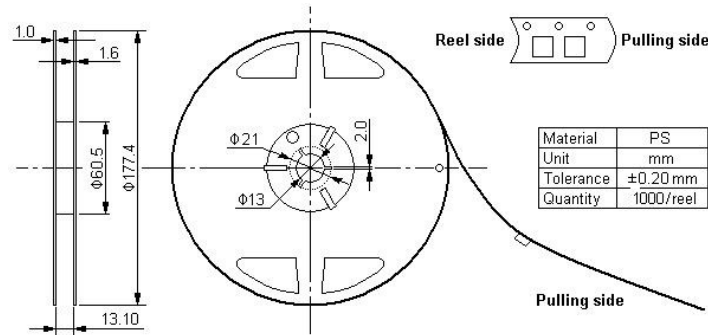
**Packing Information**

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.