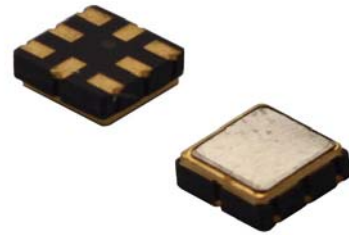


**Application**

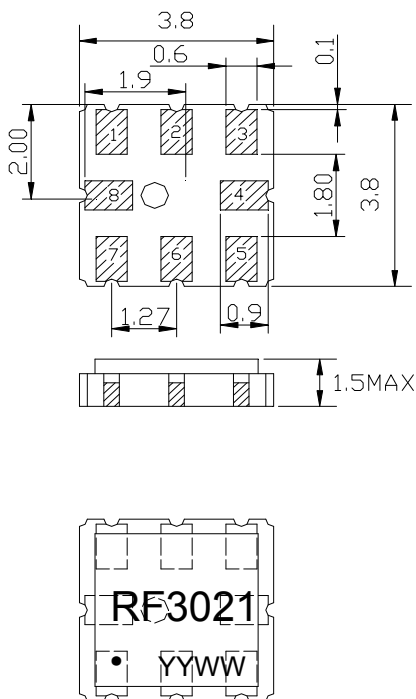
- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 12.0 MHz



**Features**

- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 3.80x3.80x1.50mm<sup>3</sup>
- Package Code QCC8B
- **Electrostatic Sensitive Device(ESD)**

**Package Dimensions (Unit: mm)**



**Pin Configuration**

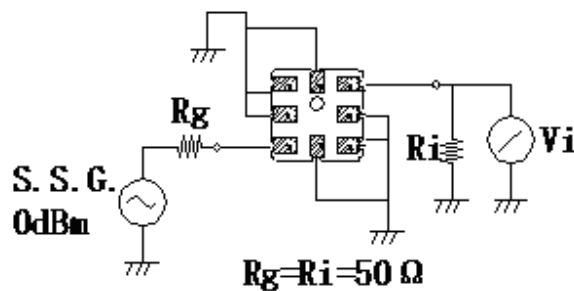
Pin No.	Description
5	Input
1	Output
2,3,6,7	To be Grounded
4,8	Case Ground

**Marking Description**

RF	R	Manufacturer
	F	SAW Filter
3021	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 <sub>DC</sub>	3	V
Operation Temperature	T	-40 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-55 ~ +125	°C
RF Power Dissipation	P	15	dBm

**Electronic Characteristics**

Test Temperature: 25°C ± 2°C

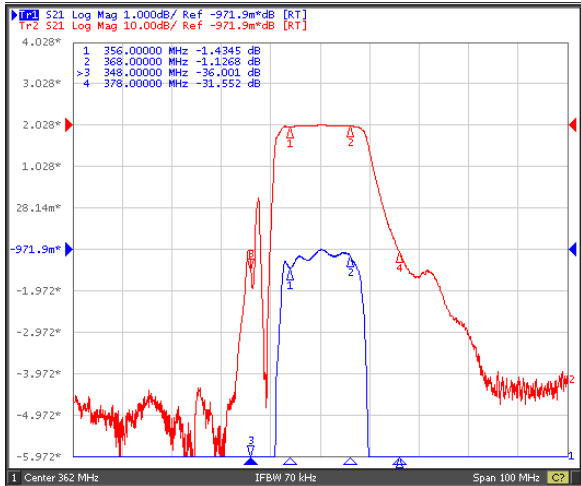
Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

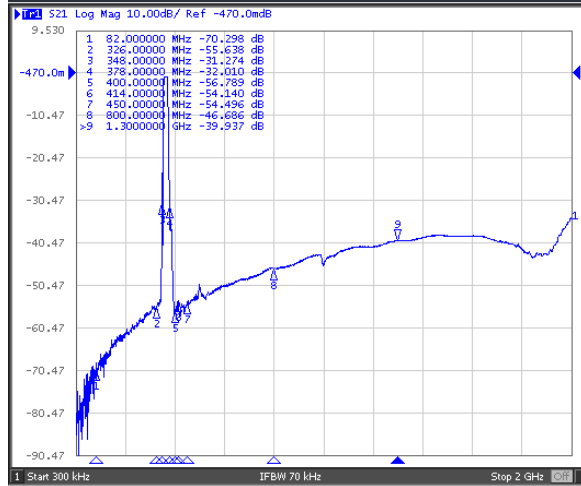
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f <sub>c</sub>		362.00		MHz
Insertion Loss(min)	IL		1.0	1.5	dB
Insertion Loss 356.00 -368.00 MHz	IL		1.5	2.0	dB
Amplitude Ripple (p-p) 356.00 -368.00 MHz	Δa		0.5	0.8	dB
Group Delay Ripple 356.00 -368.00 MHz			65.0	120.0	ns
Absolute Attenuation	a				
DC - 82.00 MHz		60.0	65.0		dB
82.00 -326.00MHz		50.0	55.0		dB
326.00-348.00MHz		15.0	20.0		dB
378.00-400.00MHz		20.0	25.0		dB
400.00-414.00MHz		47.0	52.0		dB
414.00-450.00MHz		47.0	52.0		dB
450.00-800.00MHz		40.0	45.0		dB
800.00-1300.00MHz		30.0	35.0		dB
Input VSWR 356.00 - 368.00 MHz			1.6:1	1.8:1	
Output VSWR 356.00 - 368.00 MHz			1.6:1	1.8:1	

Frequency Characteristics

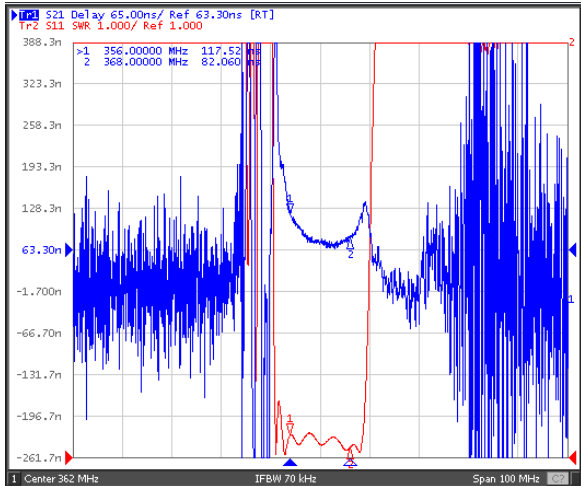
Frequency Response



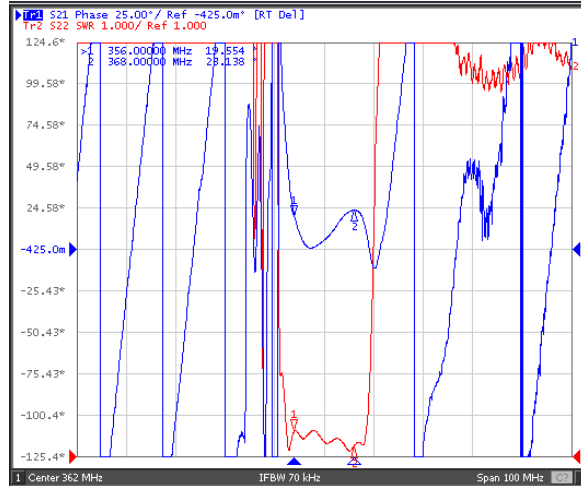
Frequency Response (wideband)



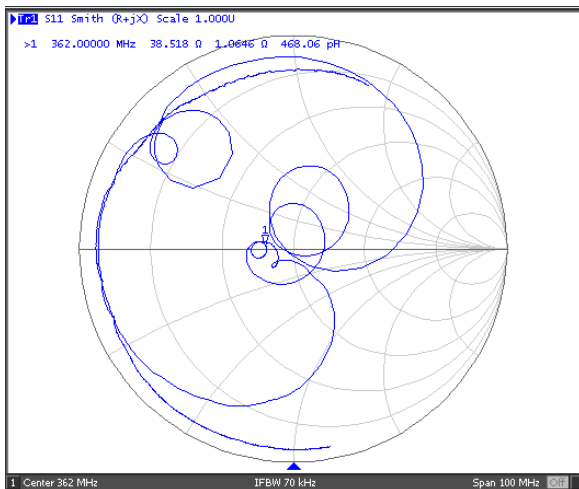
Delay Ripple & S11 VSWR



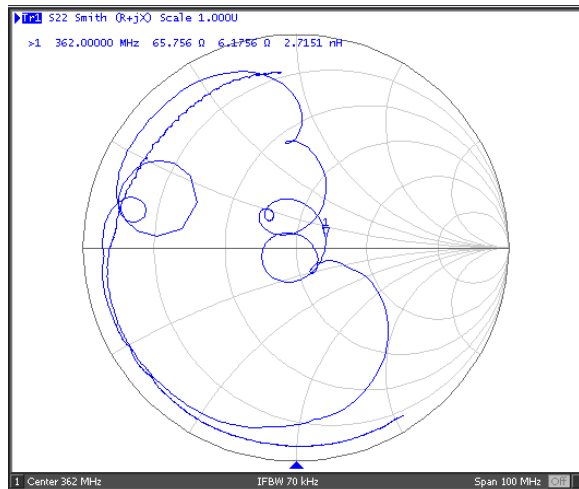
Phase Linearity & S22 VSWR



S11 Smith Chart



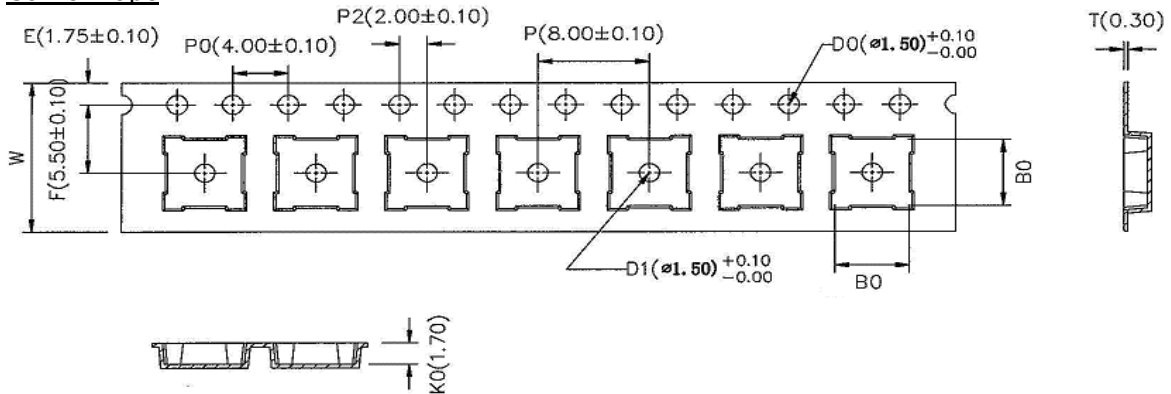
S22 Smith Chart





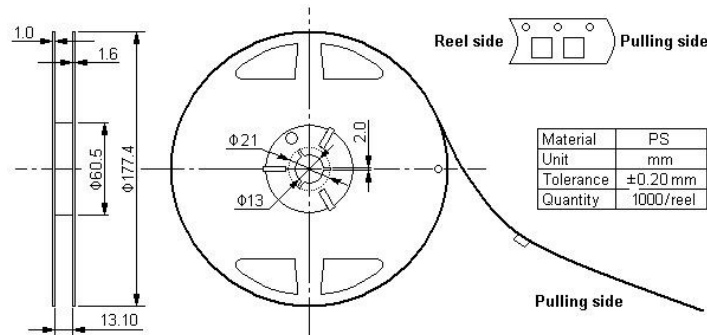
**Packing Information**

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.