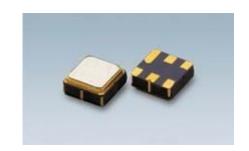


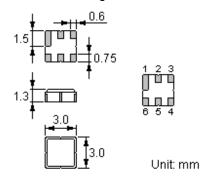
#### **Features**

- Low-loss RF filter
- High Rejection
- Single Ended Operation at 50Ω without matching
- Ceramic Package for Surface Mounted Technology (SMT)
- Lead-free Production and RoHS Compliance



### **Package Dimensions**

Ceramic Package: DCC6C



## **Pin Configuration**

2	Input
5	Output
1, 3, 4, 6	Case Ground
1, 3, 4, 6	To Be Grounded

## Marking





"ND": Manufacturer's mark "F": SAW filter

"9205": Part number "•": Terminal 1

"\*": Lot number (The code shown below varies in a 4-year cycle)

Code	1	2	3	4	5	6	7	8	9	10	11	12
2009	Α	В	С	D	Е	F	G	Н	J	K	L	М
2010	N	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
2011	а	b	С	d	е	f	g	h	i	j	k	m
2012	n	р	q	r	S	t	u	٧	W	Х	у	Z

# **Maximum Ratings**

Rating	Value	Unit	
Operating Temperature Range	$T_{A}$	-40 ~ +85	°C
Storage Temperature Range	$T_{stg}$	-40 ~ +85	°C
DC Voltage (between any Terminals)	$V_{ m DC}$	12	V
RF Power (in BW)	Р	10max.	dBm

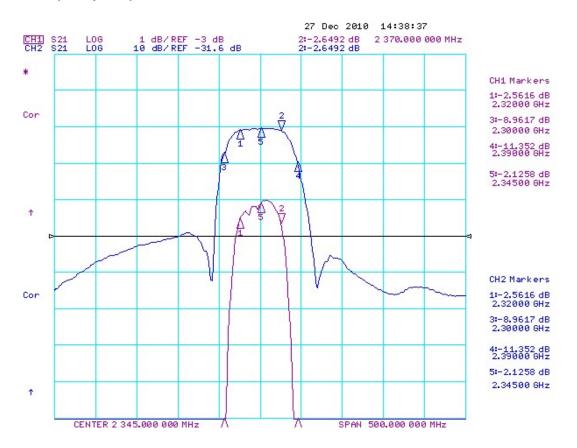


#### **Electrical Characteristics**

Item		Minimum	Typical	Maximum	Unit
Center Frequency	f <sub>C</sub>	-	2345	-	MHz
Maximum Insertion Loss in 2320 MHz–2370MHz	IL	-	2.6	3.2	dB
Amplitude Variation in 2320 MHz–2370MHz			0.7	1.2	dB
Absolute Attenuation	α				
0.30 2170.0MHz		30	33	-	dB
2170.0 2190.0 MHz		30	34	-	dB
2190.0 2300.0 MHz		4	8.5		
2390.0 2460.0 MHz		4	9	-	dB
2460.0 2585.0 MHz		30	40	-	dB
2585.0 3000.0 MHz		25	35		dB
Input VSWR in 2320 MHz–2370MHz		-	1.8:1	2.0:1	
Output VSWR in 2320 MHz–2370MHz		-	1.8:1	2.0:1	
Group delay ripple 2320 MHz–2370MHz			15	30	ns
Source / Load Impedance (single ended)		50			Ω

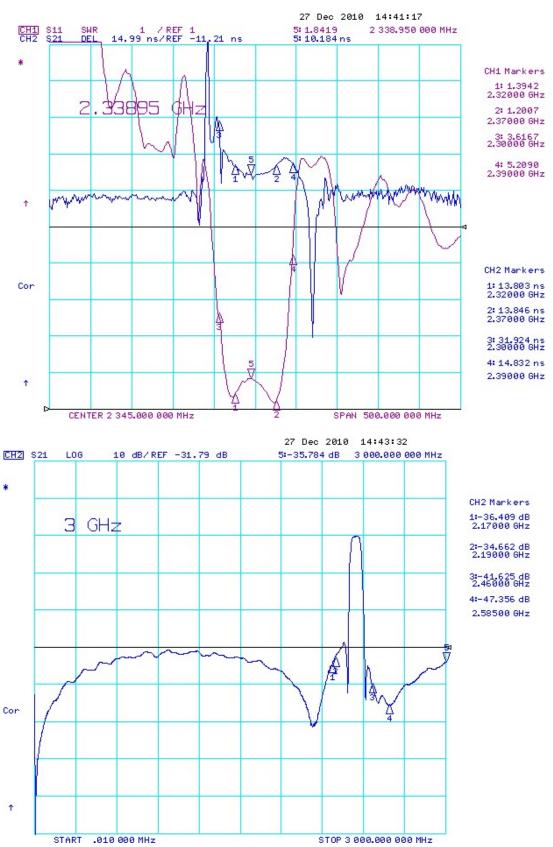
<sup>®</sup> RoHS Compliant

## **Typical Frequency Response**



Electrostatic Sensitive Device







	Test item	Condition of test				
1	Mechanical shock	a) Drops: 3 times on concrete floor b) Height: 1.0 m				
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (c) Directions: X,Y and Z	(b) Amplitude: 1.5 mm (d) Duration: 2 hours			
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (c) Wait 4 hours before measurement	(b) Duration: 96 hours			
4	Climatic sequence	` '	for 24 hours, 90~95% R.H. for 24 hours, 90~95% R.H.			
5	High temperature exposure	(a) Temperature: 70°C (c) Wait 4 hours before measurement	(b) Duration: 250 hours			
6	Thermal impact	(a) +70°C for 30 minutes ⇒ -25°C for 30 m (b) Wait 4 hours before measurement	inutes repeated 3 times			

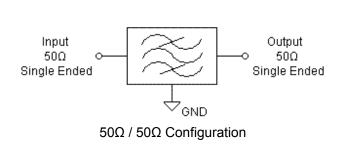
**Requirements:** The SAW filer shall remain within the electrical specifications after tests.

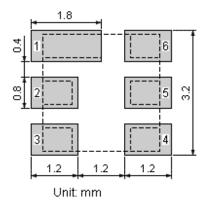
#### Remarks

- SAW devices should not be used in any type of fluid such as water, oil, organic solvent, etc.
- Be certain not to apply voltage exceeding the rated voltage of components.
- Do not operate outside the recommended operating temperature range of components.
- Sudden change of temperature shall be avoided, deterioration of the characteristics can occur.
- Be careful of soldering temperature and duration of components when soldering.
- Do not place soldering iron on the body of components.
- Be careful not to subject the terminals or leads of components to excessive force.
- SAW devices are electrostatic sensitive. Please avoid static voltage during operation and storage.
- Ultrasonic cleaning shall be avoided. Ultrasonic vibration may cause destruction of components.

### **Test Circuit**

#### **Recommended Land Pattern**

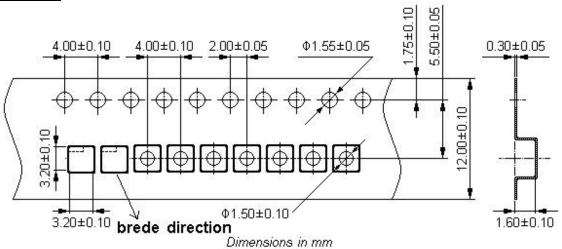




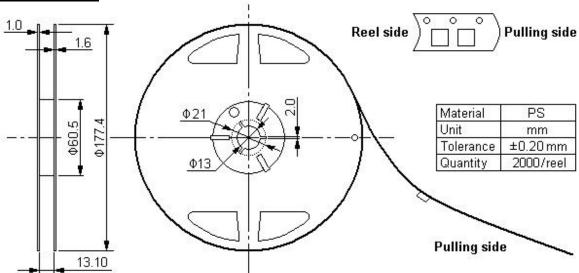


# **Packing Information**





## **Reel Dimensions**



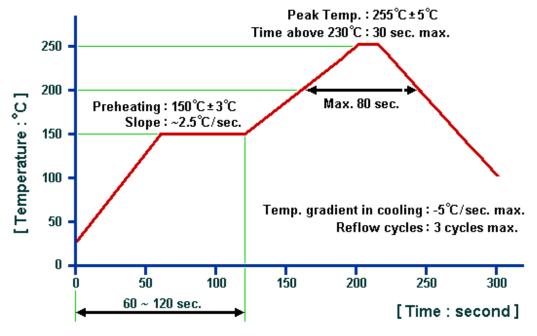
## **Outer Packing**

Туре	Quantity	Dimension	Description	Weight
Carton Box I	10000	190×190×95	anti-static plastic bag & carton box 1 reel / bag	0.85
Carton Box II	20000	190×190×190	5 bags / box (10000 pcs) 10 bags / box (20000 pcs)	1.70

Unit: mm Unit: kg



## **Recommended Soldering Profile**



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- 1. The specifications of this device are subject to change or obsolescence without notice.
- Typically, equipment utilizing this device requires emissions testing and government approval, which is the responsibility of the equipment manufacturer.
- 3. Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.
- 4. For questions on technology, prices and delivery, please contact our sales offices or e-mail winnsky@winnsky.com