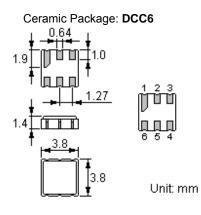
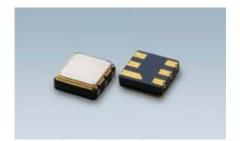


#### Features

- Low-loss RF filter for CDMA450 Block A&B(Rx)
- High Rejection
- Single Ended Operation at 50Ω without Matching
- Ceramic Package for Surface Mounted Technology (SMT)
- Lead-free Production and RoHS Compliance

## Package Dimensions





# **Pin Configuration**

h

v

g

u

i

w

i

х

k

у

m

z

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

#### Marking

			Top View, Laser Marking										
NDF₊₀₀₁ 14065			"ND": Manufacturer's mark						" <b>F</b> ":	SAW filter			
	406	5		"40	6 <b>5</b> ": F	Part num	lber			""	Termina	al 1	
				" *	·": L	_ot numb	per (The	code sł	nown be	low vari	ies in a 4	1-year c	ycle)
-	Code	1	2	3	4	5	6	7	8	9	10	11	12
	2005	Α	В	С	D	E	F	G	Н	J	К	L	М
-	2006	Ν	Р	Q	R	S	Т	U	V	W	Х	Y	Z

е

s

f

t

#### **Maximum Ratings**

2007

2008

а

n

b

р

с

q

d

r

Rating		Value	Unit
Operating Temperature Range	TA	-30 ~ +85	°C
Storage Temperature Range	T <sub>stg</sub>	-50 ~ +125	°C
DC Voltage (between any Terminals)	V <sub>DC</sub>	0	V
RF Power (in <i>BW</i> )	Р	30 max.	dBm
ESD Voltage (HB)	$V_{\rm ESD}$	150	V



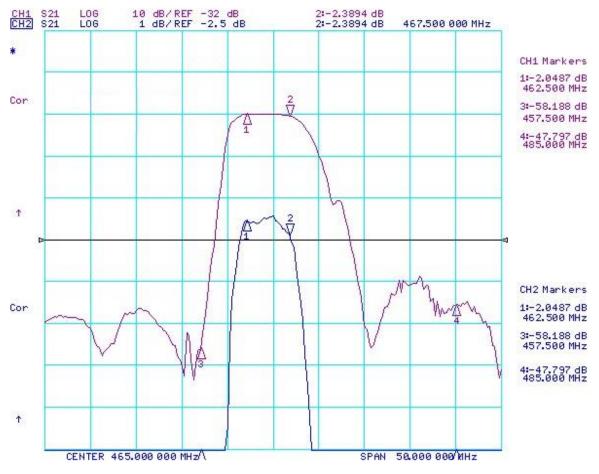
## Electrical Characteristics (-30°C ~ +85°C)

	Minimum	Typical	Maximum	Unit
f <sub>C</sub>	-	465.00	-	MHz
IL	-	2.5	3.5	dB
α				
	40	45	-	dB
	40	48	-	dB
	35	45	-	dB
	40	45	-	dB
	25	30		dB
	-	1.6:1	2.0:1	
	-	1.6:1	2.0:1	
		50		Ω
	IL	fc -   IL -   α 40   40 35   40 40	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$f_{\rm C}$ - 465.00 - $IL$ - 2.5 3.5 $\alpha$ - -   40 45 -   40 45 -   40 48 -   35 45 -   40 45 -   10 40 -   35 45 -   10 40 -   10 1.6:1 2.0:1   - 1.6:1 2.0:1

🕲 RoHS Compliant

Electrostatic Sensitive Device

# **Typical Frequency Response**





#### **Stability Characteristics**

	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 $\Rightarrow$ -25°C for 30 mi (b) Wait 4 hours before measurement	inutes repeated 3 times			

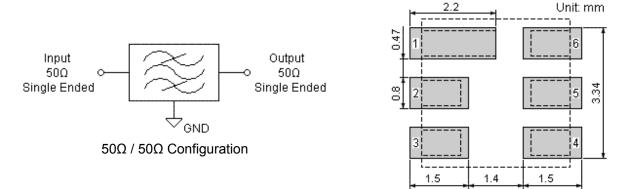
Requirements: The SAW filer shall remain within the electrical specifications after tests.

#### 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**

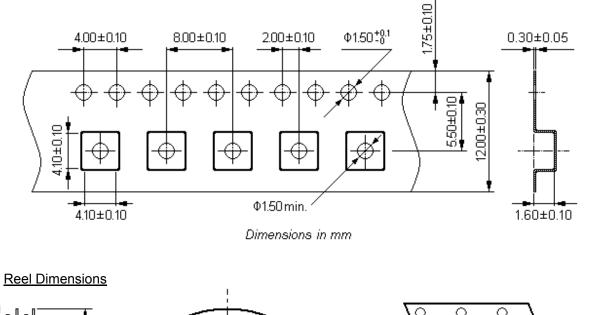
### **Recommended Land Pattern**

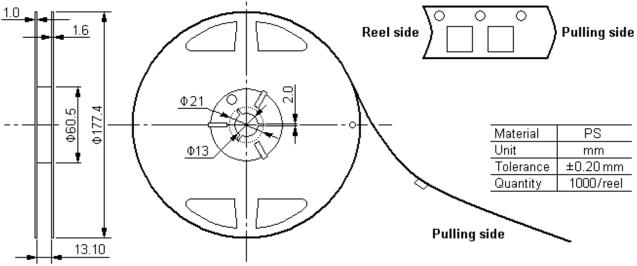




# **Packing Information**

Carrier Tape



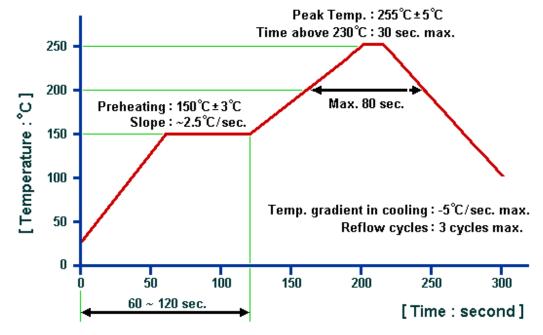


Outer Packing

Туре	Quantity	Dimension	Description	Weight	
Carton Box I	5000	190×190×95	anti-static plastic bag & carton box 1 reel / bag	0.85	
Carton Box II	10000	190×190×190	5 bags / box (5000 pcs) 10 bags / box (10000 pcs)	1.70	
Unit: mm					



#### **Recommended Soldering Profile**



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- 1. The specifications of this device are subject to change or obsolescence without notice.
- 2. Typically, equipment utilizing this device requires emissions testing and government approval, which is the responsibility of the equipment manufacturer.
- 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

WINNSKY INTERNATIONAL (H.K.) LIMITED