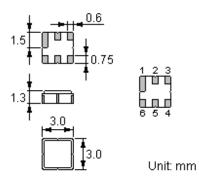


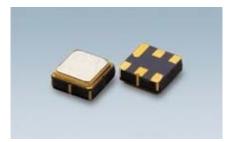
### Features

- Low-loss RF filter for mobile systems
- Low amplitude ripple
- No matching network required for operation at 50Ω
- Ceramic package for Surface Mounted Technology (SMT)
- Lead-free production and **RoHS** compliant

### **Package Dimensions**

Ceramic Package: DCC6C





## **Pin Configuration**

2	Input
5	Output
1, 3, 4, 6	Ground

## Marking

					Тс	op View,	Laser N	/larking				
NDF	*		"NI	D": N	/lanufact	turer's m	nark		" <b>F</b> ":	SAW filter		
, 929	9		"929	<b>99</b> ": F	Part num	"•":	Termina	al 1				
/ 1				": L	ot numb	er (The	code sh	nown be	low vari	es in a 4	l-year cy	/cle)
ode	1	2	3	4	5	6	7	8	9	10	11	12

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

## **Maximum Ratings**

Rating	Value	Unit	
Input Power Level	Р	10	dBm
DC Voltage	V <sub>DC</sub>	6	V
Operating Temperature Range	TA	-40 ~ +85	°C
Storage Temperature Range	T <sub>stg</sub>	-40 ~ +85	°C

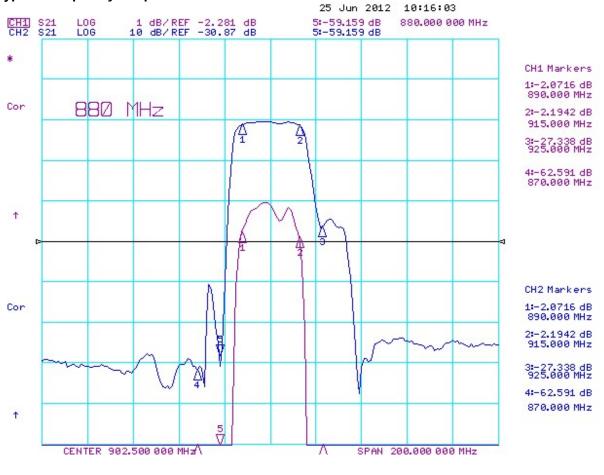


#### **Electrical Characteristics**

Item	Minimum	Typical	Maximum	Unit	
Center Frequency	f <sub>C</sub>		902.5		MHz
Insertion Loss	IL				
890.00 915.00 MHz			2.2	3.5	dB
Group Delay Ripple 890.00 915.00 MHz			50	100	ns
Absolute Attenuation	α				
DC 700.00 MHz		45	52		dB
700.00 870.00 MHz		45	52		dB
870.00 880.00 MHz		30	40		dB
925.00 945.00MHz		20	25		dB
945.00 2000.00 MHz		40	50		dB
2000.00 3000.00 MHz		25	33		dB
Amplitude Ripple (p-p) 890.00 915.00 MHz	Δα		0.9	2	dB
Intput VSWR 890.00 915.00 MHz			1.5: 1	2.0: 1	
Output VSWR 890.00 915.00 MHz			1.5: 1	2.0: 1	
Input / Output Impedance (Nominal)		50	•	Ω	
	<u> </u>		o :/: /		•

# 🕲 RoHS Compliant

① Electrostatic Sensitive Device



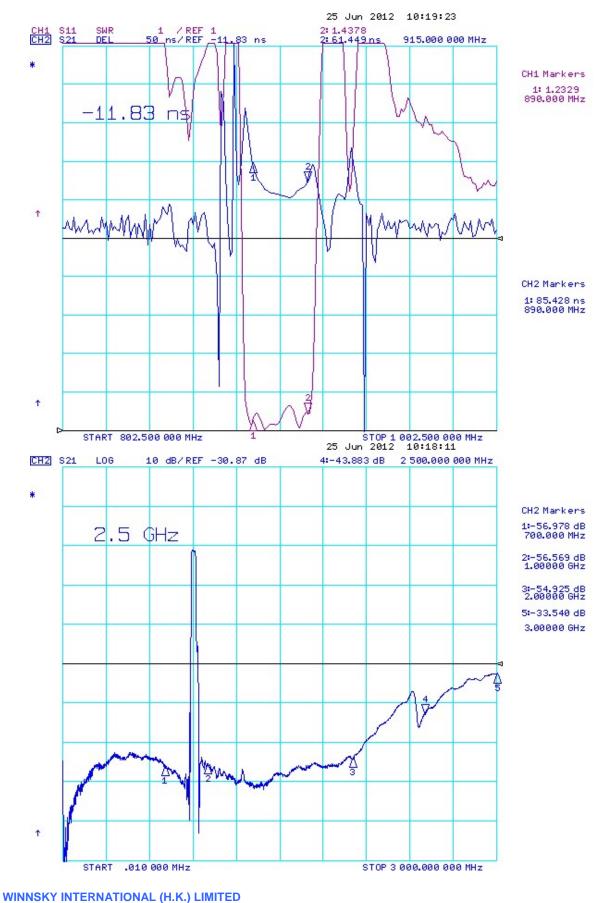
## Typical Frequency Response

WINNSKY INTERNATIONAL (H.K.) LIMITED

www.winnsky.com



SAW Filter



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## **Stability Characteristics**

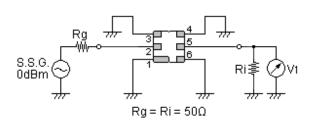
	Test item	Condition of test
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz(b) Amplitude: 1.5 mm(c) Directions: X,Y and Z(d) Duration: 2 hours
3	Moisture resistance	(a) Condition: $40^{\circ}C \pm 2^{\circ}C$ , $93^{+2}_{-3}^{+2}$ % RH. (b) Duration: 96 hours (c) Wait 4 hours before measurement
4	Climatic sequence	(a) +70°C for 16 hours (b) +55°C for 24 hours, 90~95% R.H.   (c) -25°C for 2 hours (d) +40°C for 24 hours, 90~95% R.H.   (e) Wait 4 hours before measurement
5	High temperature exposure	(a) Temperature: 85°C (b) Duration: 250 hours (c) Wait 4 hours before measurement
6	Temperature cycling	(a) +85°C for 30 minutes $\Rightarrow$ -40°C for 30 minutes repeated 120 times (b) Wait 4 hours before measurement

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

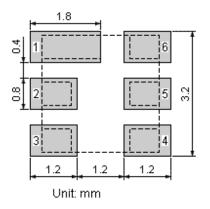
#### Remarks

- 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**



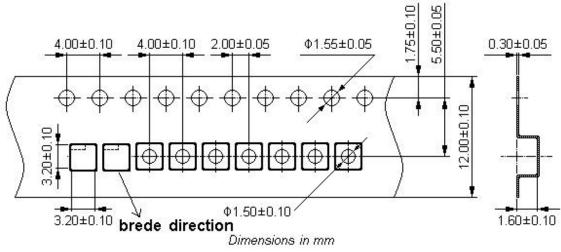
#### **Recommended Land Pattern**



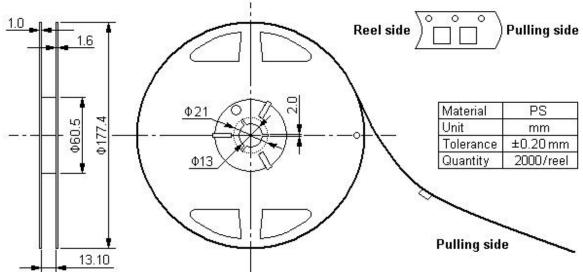


# **Packing Information**

# Carrier Tape







## Outer Packing

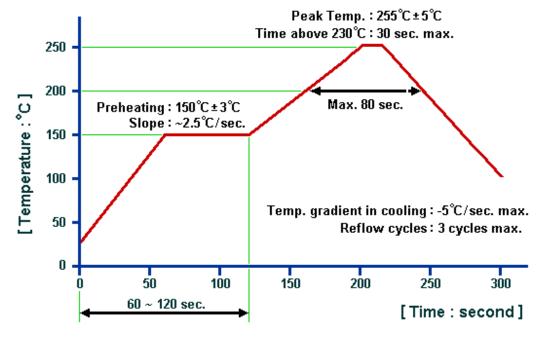
Туре	Quantity	Dimension	Description	Weight
Carton Box I	10000	190×190×95	anti-static plastic bag & carton box 1 reel / bag	0.85
Carton Box II	20000	190×190×190	5 bags / box (10000 pcs) 10 bags / box (20000 pcs)	1.80
		Lipit: mana	•	مباياتها

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.
- 2. 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

WINNSKY INTERNATIONAL (H.K.) LIMITED