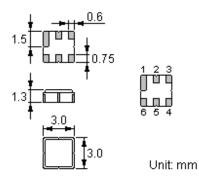


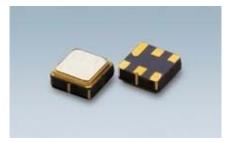
Features

- 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

Top View, Laser Marking Manufacturer's mark

"ND":Manufacturer's mark"F":SAW filter"8113":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	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	23 dBm CW,Ta=85°C,life time>10 years 电气性能满足规格要求			
DC Voltage	V _{DC}	6	V		
Operating Temperature Range	TA	-40 ~ +85	°C		
Storage Temperature Range	T _{stg}	-40 ~ +85	°C		
ESD-HBM for all pin	E _{SD}	150	V		

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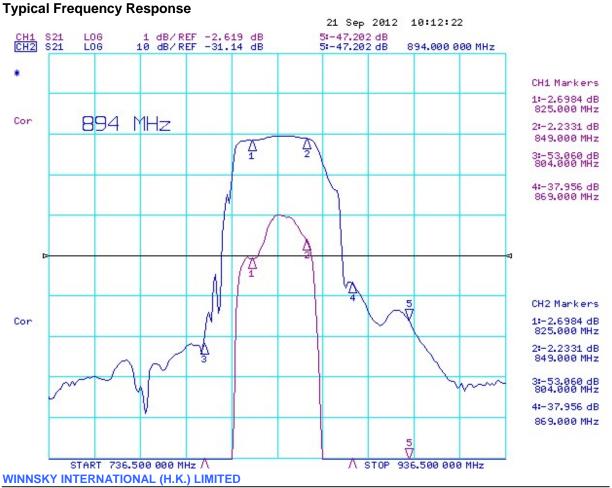


Electrical Characteristics

Item		Minimum	Typical	Maximum	Unit
Center Frequency	f _C		836.5		MHz
Insertion Loss	IL				
825.00 849.00 MHz			3.2	4.0	dB
Group Delay Ripple 825.00 849.00 MHz			12	30	ns
Absolute Attenuation	α				
DC 804.00 MHz		30	40		dB
869.00 894.00 MHz		32	40		dB
894.00 920.00 MHz		38	45		dB
920.00 1210.00MHz		40	55		dB
1210.00 1500.00 MHz		35	50		dB
1500.00 2000.00 MHz		30	40		dB
2000.00 2600.00 MHz		20	28		dB
2600.00 3000.00 MHz		15	25		dB
Amplitude Ripple (p-p) 825.00 849.00 MHz	Δα		1.1	1.5	dB
Intput VSWR 825.00 849.00 MHz			1.9: 1	2.0: 1	
Output VSWR 825.00 849.00 MHz			1.9: 1	2.0: 1	
Input / Output Impedance (Nominal)			50		Ω

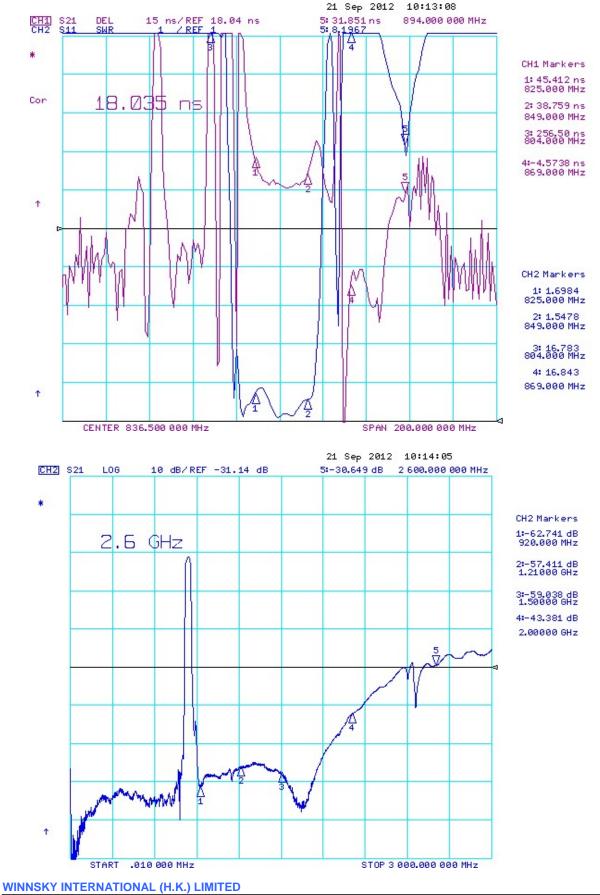
🕲 RoHS Compliant

① Electrostatic Sensitive Device





SAW Filter



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Stability Characteristics

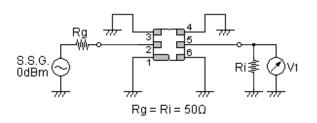
	Test item	Condition of test					
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m					
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz(b) Amplitude: 1.5 mm(c) Directions: X,Y and Z(d) Duration: 2 hours					
3	Moisture resistance	(a) Condition: $40^{\circ}C \pm 2^{\circ}C$,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

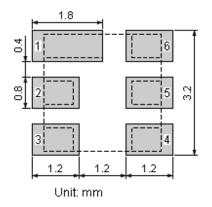
Remarks

- 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



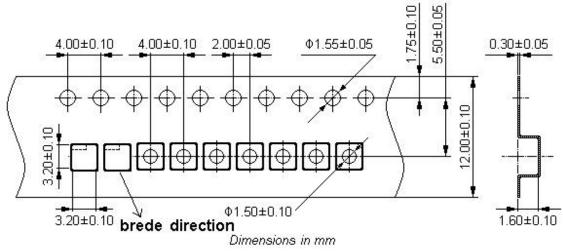
Recommended Land Pattern

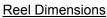


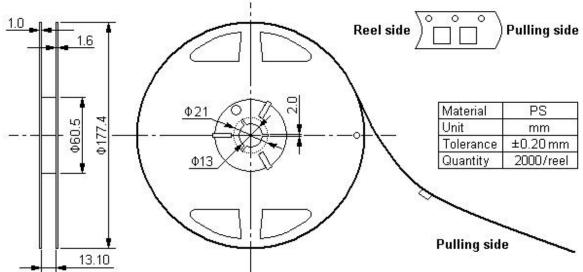


Packing Information

Carrier Tape







Outer Packing

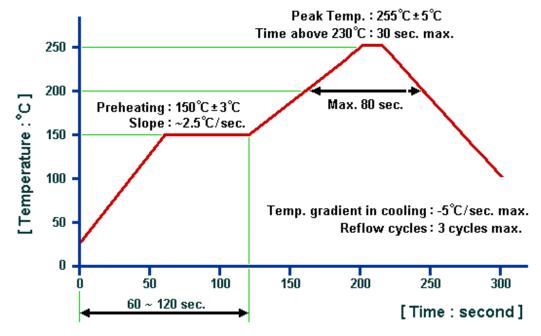
Туре	Quantity	Dimension	Description	Weight
Carton Box I	10000	190×190×95	anti-static plastic bag & carton box 1 reel / bag	0.85
Carton Box II	20000	190×190×190	5 bags / box (10000 pcs) 10 bags / box (20000 pcs)	1.80
	•	Linit: mm		L Init: ka

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

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