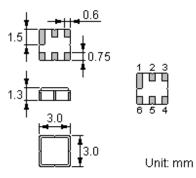


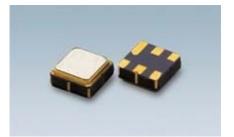
Features

- 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

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NDF*	ţ	
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Top View, Laser Marking

"ND":	Manufacturer's mark	" F ":	SAW filter
" 8091 ":	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
Operating Temperature Range	T _A	-40 ~ +85	°C
Storage Temperature Range	T_{stg}	-40~ +85	°C
RF Power (in <i>BW</i>)	Р	10max.	dBm
ESD Voltage (HB)	V_{ESD}	150	V



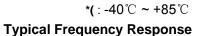
Electrical Characteristics (-40°C ~ +85°C)

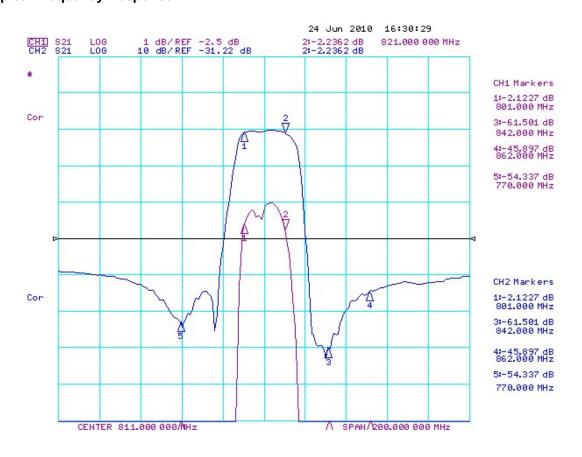
ltem		Minimum	Typical	Maximum	Unit
Center Frequency	f _C	-	811	-	MHz
Maximum Insertion Loss in 801.0 MHz-821.0 MHz	IL	-	2.2	2.8	dB
Ripple 801.0 MHz–821.0 MHz			0.8	1.5	
Absolute Attenuation	α				
0.3000 770.00 MHz		33	37	-	dB
842.00 862.00 MHz		42 *(46 *)	-	dB
862.00915.00 MHz		36	40	-	dB
915.00920.00 MHz		36	40		dB
920.00 1500.0 0MHz		36	40		dB
1500.0 2000.0 0MHz		38	42		dB
Group delay ripple 801.0 MHz–821.0 MHz			30	50	ns
Input VSWR in 801.0 MHz–821.0 MHz		-	1.7:1	2.0:1	
Output VSWR in 801.0 MHz-821.0 MHz		-	1.7:1	2.0:1	
Source / Load Impedance			50		Ω
~	<u> </u>				

*): +25°C

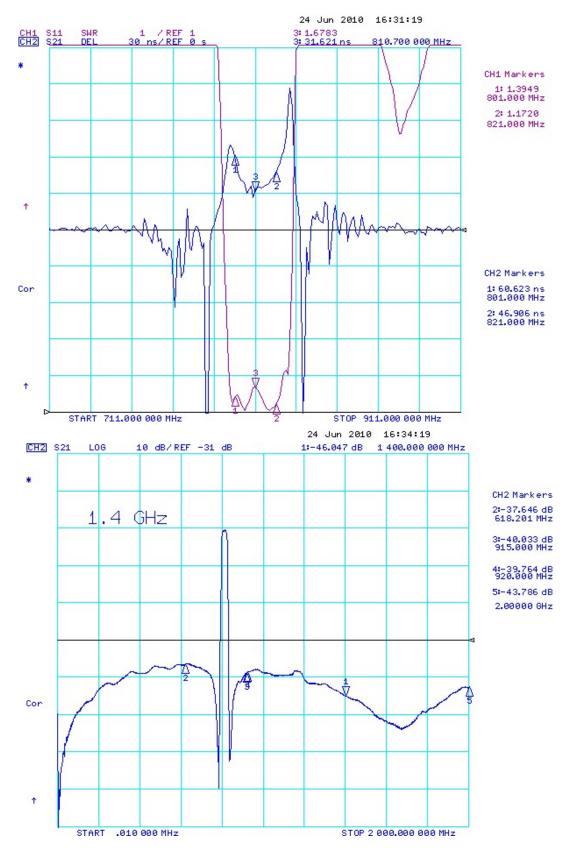
🕲 RoHS Compliant

1 Electrostatic Sensitive Device





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- 4 -



Stability Characteristics

	Test item	Condition of te	est
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	nutes repeated 3 times

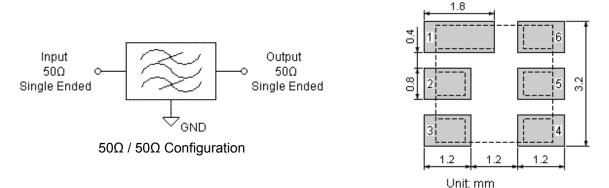
Requirements: The SAW filer shall remain within the electrical specifications after tests.

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

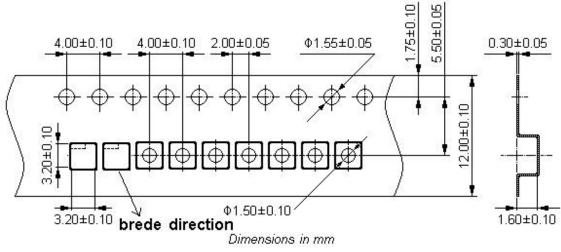
Recommended Land Pattern



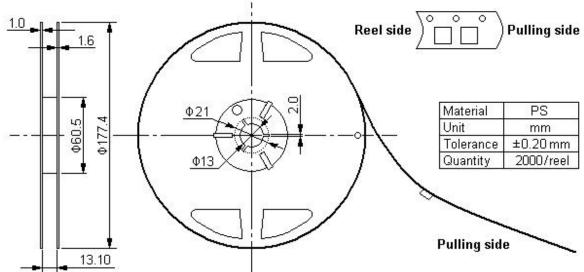


Packing Information

Carrier Tape







Outer Packing

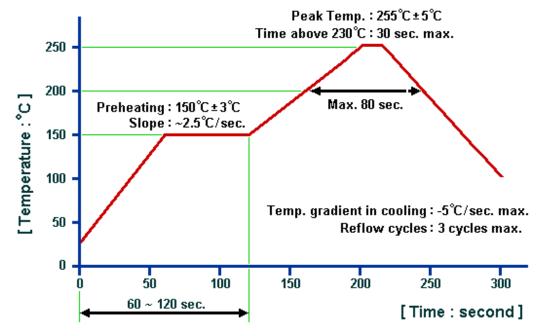
Туре	Quantity	Dimension	Description	Weight
Carton Box I	10000	190×190×95	anti-static plastic bag & carton box 1 reel / bag	0.85
Carton Box II	20000	190×190×190	5 bags / box (10000 pcs) 10 bags / box (20000 pcs)	1.70
	•	Linit: mm		L Init: ka

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

WINNSKY INTERNATIONAL (H.K.) LIMITED