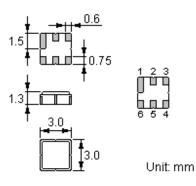


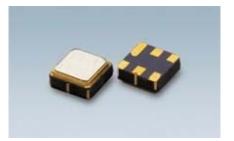
Features

- 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

					Т	op View	Laser I	Marking				
NDF*	e į	"ND": Manufacturer's mark								SAW filter		
. 9194	é ľ		" 9 1	94 ":	Part num		"":	Termina	al 1			
1	₹		"*	<":	Lot numb	per (The	code sł	nown be	low vari	ies in a 4	4-year c	ycle)
No. da	4	0	2	4	-	0	7	0	0	40	44	40

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

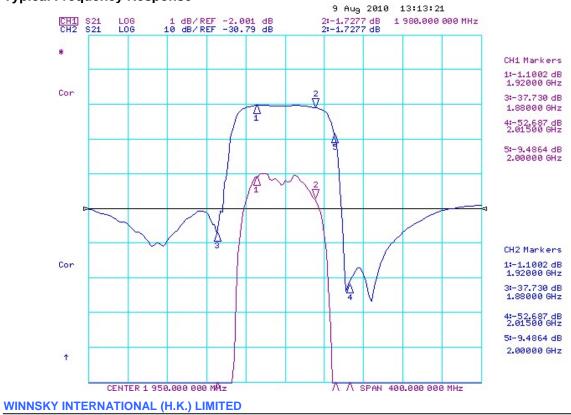
Rating		Value	Unit
Input Power Level	Р	10	dBm
DC Voltage	V _{DC}	12	V
Operating Temperature Range	T _A	-40 ~ +85	°C
Storage Temperature Range	T_{stg}	-40 ~ +85	°C



Electrical Characteristics

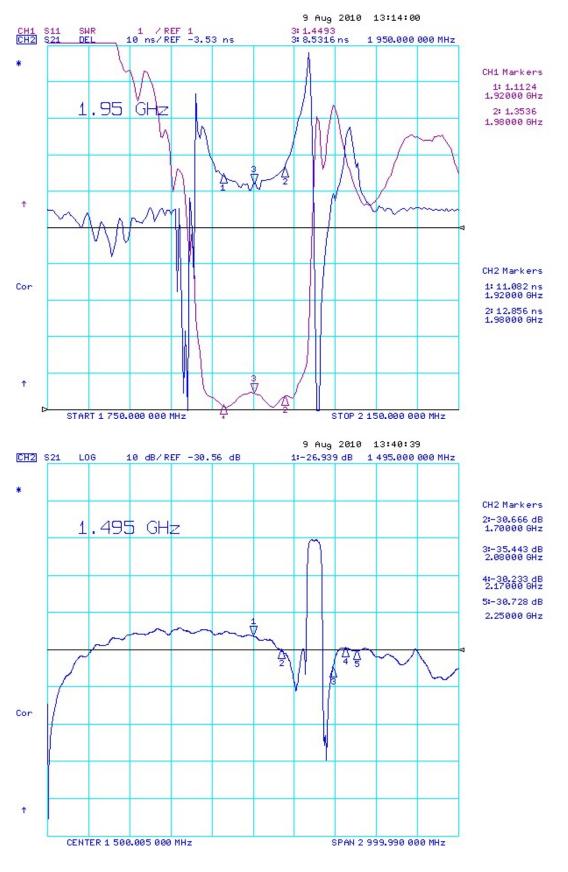
ltem		Minimum	Typical	Maximum	Unit
Center Frequency	f _C		1950		MHz
Insertion Loss	IL				
1920.00 1980.00 MHz			1.8 **	2.5 * (dB
Group Delay Ripple 1920.00 1980.00 MHz			10 **	40	ns
Absolute Attenuation	α				
DC 1400.00 MHz		22	25		dB
1400.00 1495.00 MHz		25	27		dB
1495.00 1700.00 MHz		25	27		dB
1700.00 1870.00 MHz		28	30		dB
1870.00 1880.00 MHz		23 * (31		dB
2000.00 2015.00 MHz		4.0 *)	9.0		dB
2015.00 2030.00 MHz		22	45		dB
2030.00 2050.00 MHz		35	45		dB
2050.00 2080.00 MHz		33	36		dB
2080.00 2170.00 MHz		28	30		dB
2170.00 3000.00 MHz		25	30		dB
Amplitude Ripple (p-p) 1920.00 1980.00 MHz	Δα		0.6 **	1.2	dB
Intput VSWR 1920.00 1980.00 MHz			1.5: 1	2.0: 1	
Output VSWR 1920.00 1980.00 MHz			1.5: 1	2.0: 1	
Input / Output Impedance (Nominal)			50	•	Ω

B RoHS Compliant*): -40°C ** : +25°C *(: +85°C
I Electrostatic Sensitive Device
Typical Frequency Response





SAW Filter



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Stability Characteristics

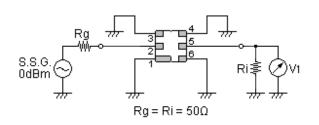
	Test item	Condition of te	est
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m	
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (c) Directions: X,Y and Z	(b) Amplitude: 1.5 mm (d) Duration: 2 hours
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (c) Wait 4 hours 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.

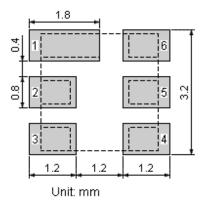
Remarks

- 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



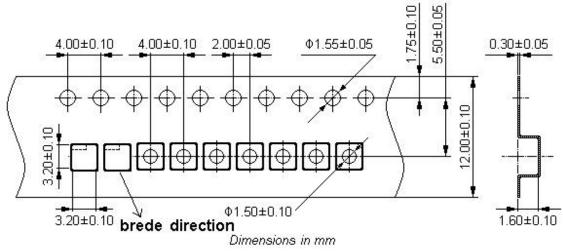
Recommended Land Pattern

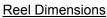


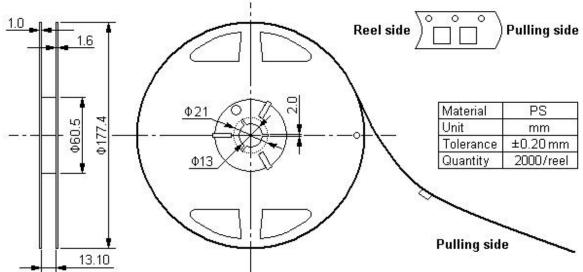


Packing Information

Carrier Tape







Outer Packing

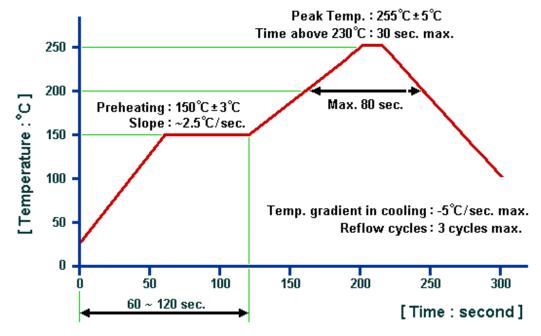
Туре	Quantity	Dimension	Description	Weight
Carton Box I	10000	190×190×95	anti-static plastic bag & carton box 1 reel / bag	0.85
Carton Box II	20000	190×190×190	5 bags / box (10000 pcs) 10 bags / box (20000 pcs)	1.80
	•	Linit: mm		L Init: ka

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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