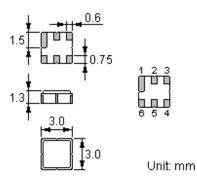


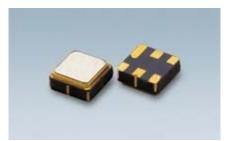
Features

- 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

¥-,	NDF*	ł
	9117	ľ
Ľ		JJ.

Top View, Laser Marking

"ND":	Manufacturer's mark
" 9117 ":	Part number

"**•**": Terminal 1

SAW filter

"**F**":

" * ": 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	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	20	dBm
DC Voltage	V _{DC}	5	V
Operating Temperature Range	TA	-40 ~ +85	°C
Storage Temperature Range	$T_{\rm stg}$	-40 ~ +85	°C



Electrical Characteristics

Item		Minimum	Typical	Maximum	Unit
Center Frequency	f _C		1747.50		MHz
Insertion Loss	IL				
1710.00 1765.00 MHz			2.5 * <mark>2</mark>	4.0 *1 5.0 *4	dB
1765.00 1785.00 MHz			2.5 <mark>*2</mark>	4.0 *3 5.0 *4	dB
Group Delay Ripple 1710.00 1785.00 MHz			18	40	ns
Absolute Attenuation	α				
DC 960.00 MHz		20	25		dB
960.00 1690.00 MHz		20	25		dB
1690.00 1693.00 MHz		15 * <mark>3</mark> 10 *4	32 * <mark>2</mark>		dB
1802.00 1805.00 MHz		15 *1	32 * <mark>2</mark>		dB
1805.00 1880.00 MHz		28	34		dB
1880.00 3200.00 MHz		25	31		dB
3200.00 5000.00 MHz		4	28		dB
Amplitude Ripple (p-p) 1710.00 1785.00 MHz	Δα		1.5 * <mark>2</mark>	3.0 *3 3.8 *4	dB
Intput VSWR 1710.00 1785.00 MHz				2.2: 1	
Output VSWR 1710.00 1785.00 MHz				2.2: 1	
Input / Output Impedance (Nominal)			50	•	Ω

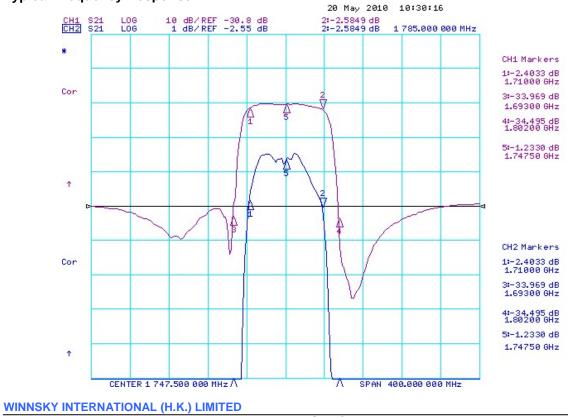
***4:** +90℃

*1: -40℃

BoHS Compliant
*2 : +25 ℃
*3 : +85 ℃

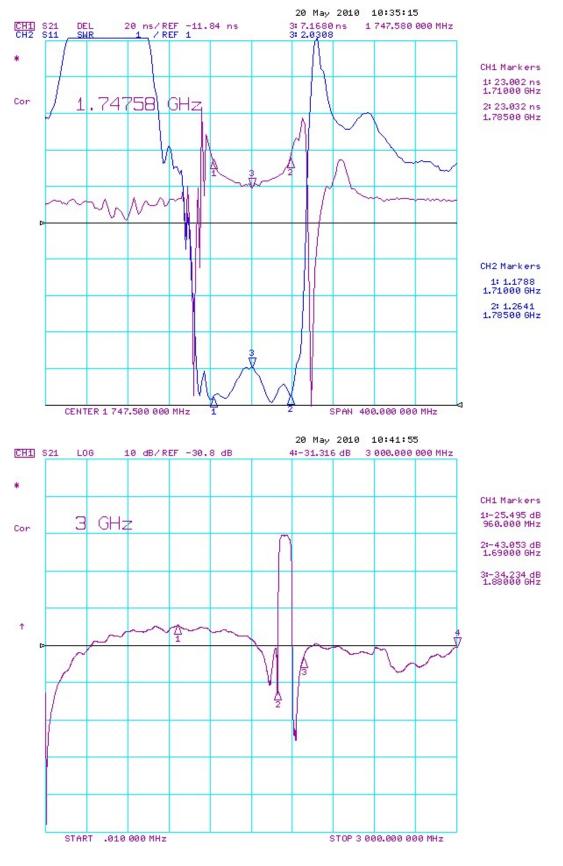
I Electrostatic Sensitive Device

Typical Frequency Response



www.winnsky.com

SAW Filter



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- 4 -



Stability Characteristics

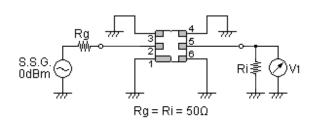
	Test item	Condition of test				
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m				
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (c) Directions: X,Y and Z	(b) Amplitude: 1.5 mm (d) Duration: 2 hours			
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (c)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

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

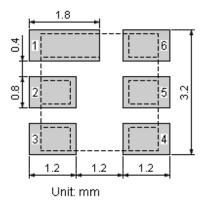
Remarks

- 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



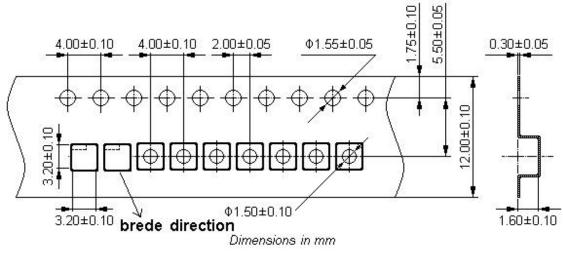
Recommended Land Pattern



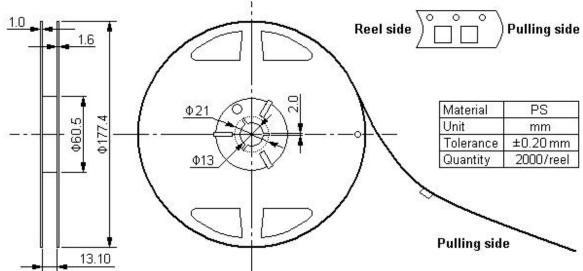


Packing Information

Carrier Tape







Outer Packing

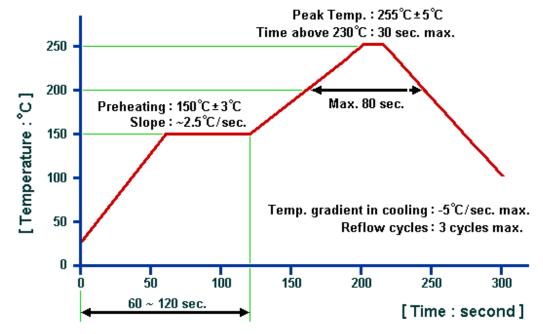
Туре	Quantity	Dimension	Description	Weight
Carton Box I	10000	190×190×95	anti-static plastic bag & carton box 1 reel / bag	0.85
Carton Box II	20000	190×190×190	5 bags / box (10000 pcs) 10 bags / box (20000 pcs)	1.80
	•	Linit: mm		L Init: ka

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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