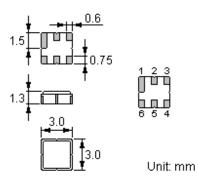


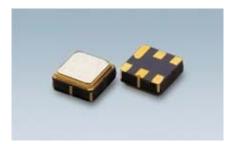
Features

- 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

	ו				Тор	View, L	aser Ma	arking					
IDF* 167	k		"NI	D ":	Manufa	cturer's	mark		" F ":	SAW	filter		
167			"NDF9	9167 ":	Part nu	mber			"•":	Termi	nal 1		
200 C. T.	2		" *	"	Lot nun	nber (Th	e code	shown t	oelow va	aries in a	a 4-year	cycle)	
al a	4	0	2	4	_	<u> </u>	7	0	0	10	44	40	

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

g

Rating	Value	Unit	
Input Power Level	Р	10	dBm
DC Voltage	V _{DC}	0	V
Operating Temperature Range	TA	-40 ~ +85	°C
Storage Temperature Range	T _{stg}	-40 ~ +85	°C



Electrical Characteristics

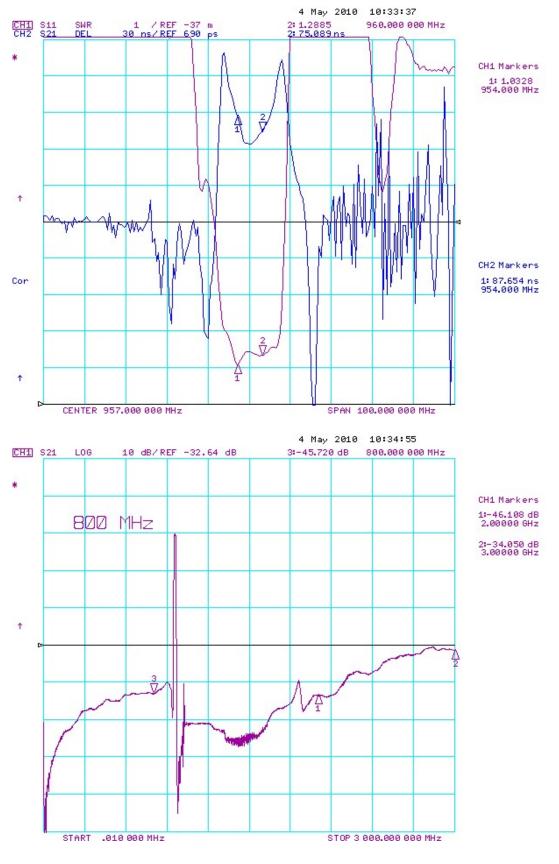
Item		Minimum	Typical	Maximum	Unit	
Center Frequency	f _C		957		MHz	
Insertion Loss	IL					
954.00 960.00 MHz			2.5	3.5	dB	
Absolute Attenuation	α					
DC800.0 MHz		35	42		dB	
800.0935.0 MHz		35	42		dB	
975.0 1000.0 MHz		40	55		dB	
1000.0 2000.0 MHz		35	42		dB	
2000.0 3000.0 MHz		25	32		dB	
Amplitude Ripple (p-p) 954.00 960.00 MHz	Δα		0.6	1.2	dB	
Group delay ripple 954.00 960.00 MHz			30	60	ns	
Input VSWR						
954.00 960.00 MHz			1.5: 1	2.0: 1		
Output VSWR						
954.00 960.00 MHz			1.5: 1	2.0: 1		
Input / Output Impedance (Nominal)		50		Ω		
🕲 RoHS Compliant	RoHS Compliant I Electrostatic Sensitive Device					

Typical Frequency Response



WINNSKY INTERNATIONAL (H.K.) LIMITED

SAW Filter



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Stability Characteristics

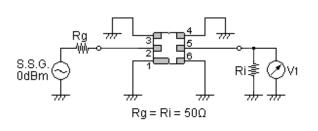
	Test item	Condition of te	est
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m	
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (c) Directions: X,Y and Z	(b) Amplitude: 1.5 mm (d) Duration: 2 hours
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (c) Wait 4 hours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

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

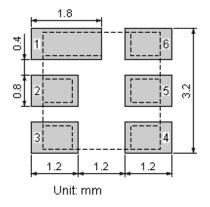
Remarks

- 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



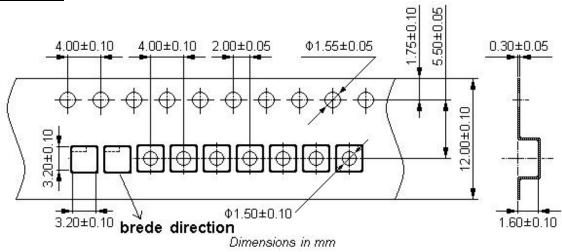
Recommended Land Pattern



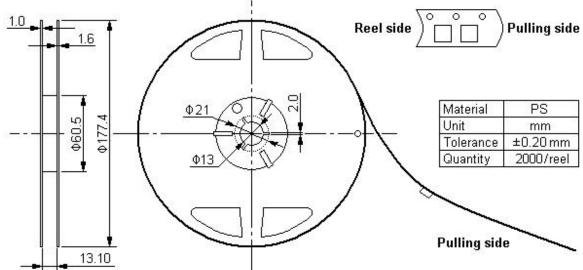


Packing Information

Carrier Tape





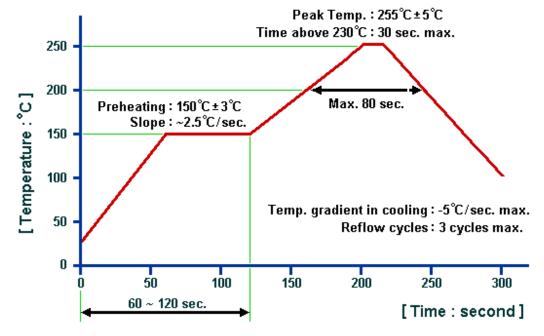


Outer Packing

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
		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.
- 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