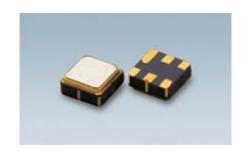


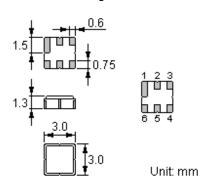
Features

- 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					
	"ND":	Manufacturer's mark	" F ":	SAW filter		
NDF*	"8114":	Part number	" • ":	Terminal 1		
8114	" * ":	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
2010	N	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
2011	а	b	С	d	е	f	g	h	i	j	k	m
2012	n	р	q	r	S	t	u	٧	W	Х	у	Z
2013	Α	В	С	D	Е	F	G	Н	J	K	L	М



Maximum Ratings

Rating		Value	Unit		
		15 dBm CW, Ta=85°C, life time>10 000 hurs			
		14 dBm CW, Ta=95°C, life time>10 000 hurs			
		20dBm CW, Ta=85°C, pass band top frequency,			
		test 1000	hours continuously ,electrical		
		characters meet demand;			
			a=95°C, pass band top frequency,		
Input Power Level	P	test 1000 hours continuously ,electrical			
		characters meet demand;			
		23dBm CW, Ta=85°C, pass band top frequency,			
		test 2 hours continuously ,electrical characters			
		meet demand;			
		22dBm CW, Ta=95°C, pass band top frequency,			
		test 2 hours continuously ,electrical characters			
		meet demand;			
DC Voltage	$V_{ m DC}$	12	V		
Operating Temperature Range	T _A	-40 ~ +95 °C			
Storage Temperature Range	$T_{ m stg}$	-40 ~ +95 °C			

Electrical Characteristics

	Parameter	Unit	Minimum	Typical	Maximum
	Center frequency	MHz		832	
Inco	ortion Loop (915 Oc. 940 OMHz)	dB		2.5*)	3.0*)
11156	ertion Loss (815.0~849.0MHz)			2.5 **)	3.5**)
Amplit	ude Variation(815.0~849.0MHz)	dB		0.8*)	1.5*)
Ampin	ude Variation(815.0~649.0MH2)	uБ		0.8 **)	1.8**)
Group	delay Variation(815.0~849.0MHz)	ns		20	30
Group dela	ay Variation over any 5MHz window (815.0~849.0MHz)	ns			20
Group	delay Variation(815.0~849.0MHz)	ns		30	50
Group dela	ay Variation over any 5MHz window (815.0~849.0MHz)	ns			20
	0~795MHz	dB	25	35	
	795~800MHz	dB	20	25	
	860~865MHz	dB	12	18	
Absolute	865~894MHz	dB	25	30	
Attenuatio	894~1180MHz	dB	30	35	
n	1180~1220MHz	dB	30	40	
	1220~2000MHz	dB	30	35	
	2000~3000MHz	dB	25	30	
	3000~5000MHz	dB	10	12	
VSW	/R S11 S22 (815.0~849.0MHz)			1.5	2.3
	Input/Output Impedance	ohm		50	

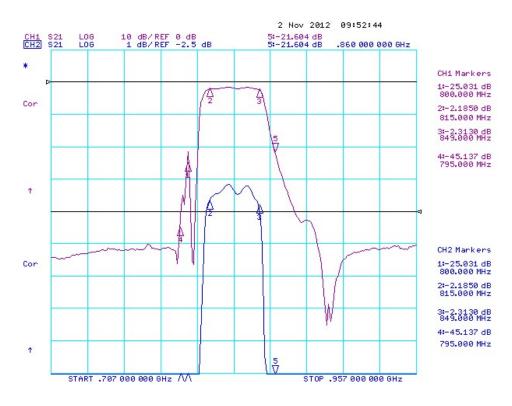
[®] RoHS Compliant

Electrostatic Sensitive Device

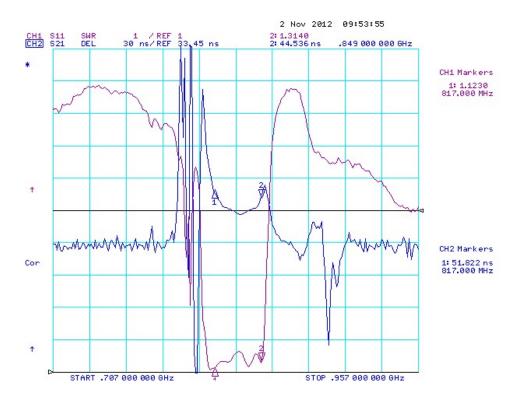
^{*) @ -40 °}C ~85°C **) @ 85 °C ~95°C



Typical Frequency Response

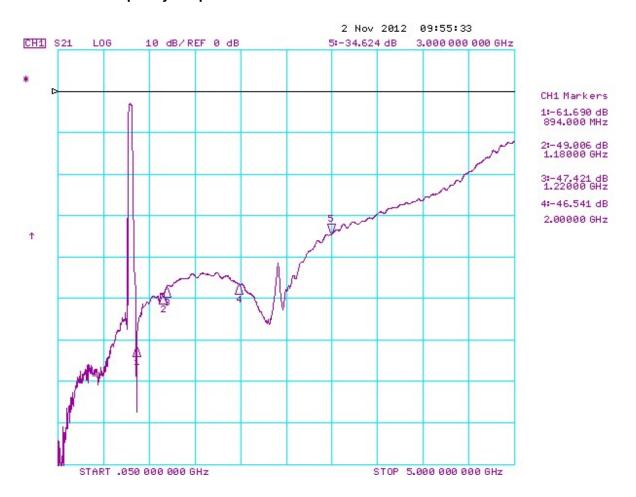


VSWR Group delay





50MHz~5GHz Frequency Response



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 ⇒ -25°C for 30 minu	inutes repeated 3 times			

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

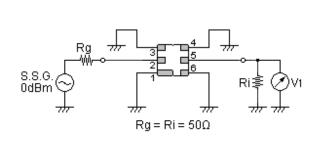


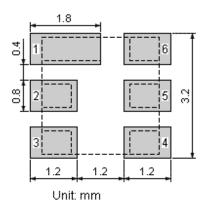
Remarks

- 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.

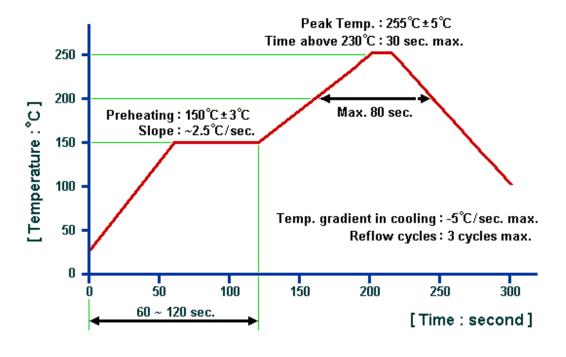
Test Circuit

Recommended Land Pattern





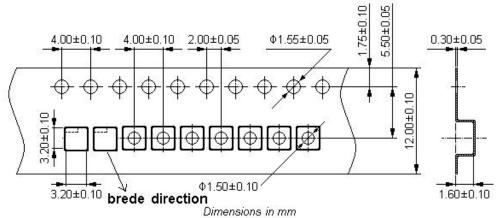
Recommended Soldering Profile



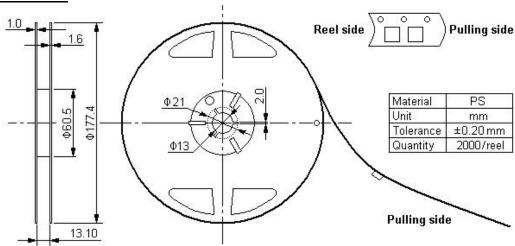


Packing Information

Carrier Tape



Reel Dimensions



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

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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