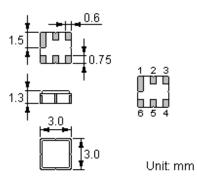


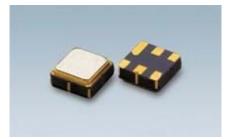
### Features

- 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

Ì		Top View, La	aser Marking			
¢	"ND":	mark	" <b>F</b> ":	SAW filter		
"	"NDF8154":	Part number		" • ":	Terminal 1	
5×	" * ":	Lot number (The code shown below varies in a 4-year cycle)				
			"ND": Manufacturer's "NDF8154": Part number		"ND": Manufacturer's mark "F": "NDF8154": Part number ".":	

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	10	dBm
DC Voltage	V <sub>DC</sub>	0	V
Operating Temperature Range	TA	-40 ~ +85	°C
Storage Temperature Range	$T_{stg}$	-40 ~ +85	°C



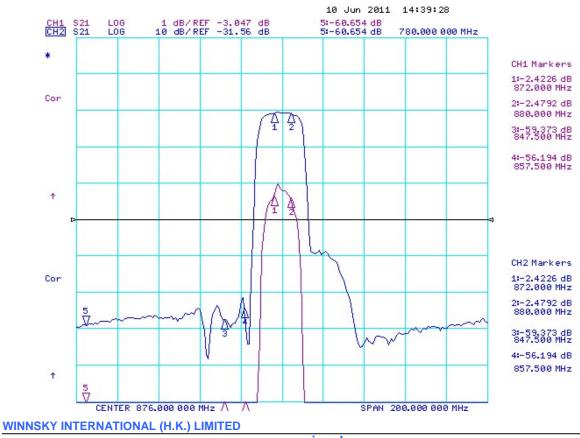
## **Electrical Characteristics**

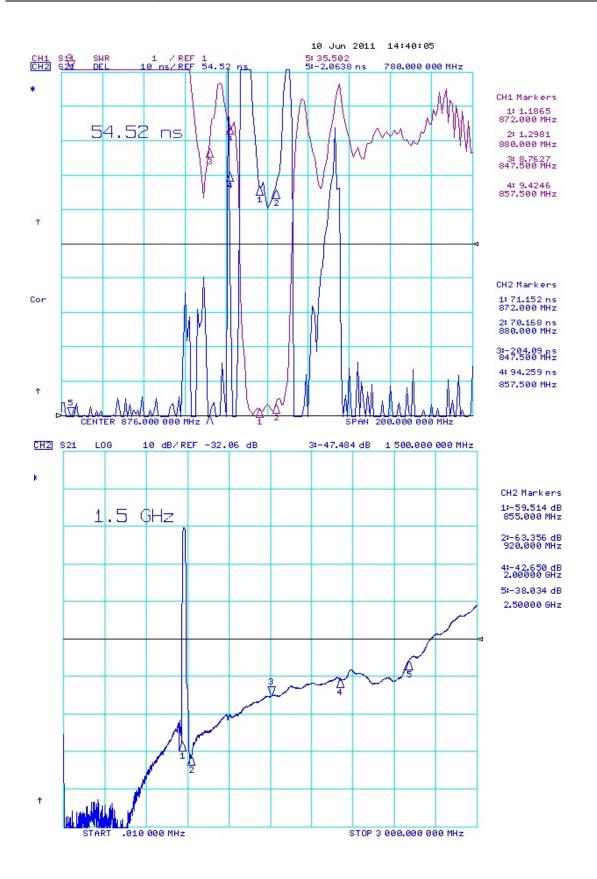
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f <sub>C</sub>		876		MHz
Insertion Loss	IL				
872.00880.0 MHz			2.4	3.2	dB
Absolute Attenuation	α				
DC780.0 MHz		40	55		dB
780.0790.0MHz		40	50		dB
825.0835.0 MHz		40	50		dB
900.0 1500.0 MHz		40	45		dB
1500.0 2000.0 MHz		38	42		dB
2000.03000.0 MHz		20	24		dB
Amplitude Ripple (p-p) 872.00880.0 MHz	Δα		0.6	1.2	dB
Group Delay Ripple 872.00880.0 MHz			10	40	ns
Input VSWR					
872.00880.0 MHz			1.5: 1	2.0: 1	
Output VSWR					
872.00880.0 MHz			1.5: 1	2.0: 1	
Input / Output Impedance (Nominal)		50		Ω	

NoHS Compliant

① Electrostatic Sensitive Device

# **Typical Frequency Response**







### **Stability Characteristics**

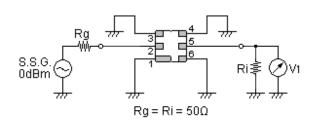
	Test item	Condition of test				
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m				
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (c) Directions: X,Y and Z	(b) Amplitude: 1.5 mm (d) Duration: 2 hours			
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (c)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

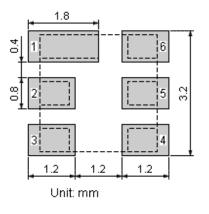
#### Remarks

- 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**



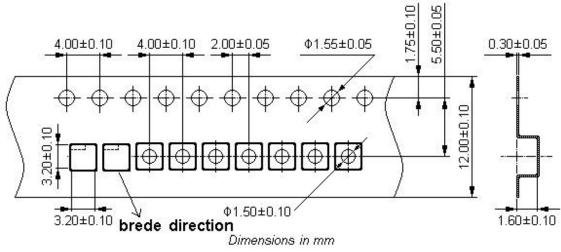
### **Recommended Land Pattern**



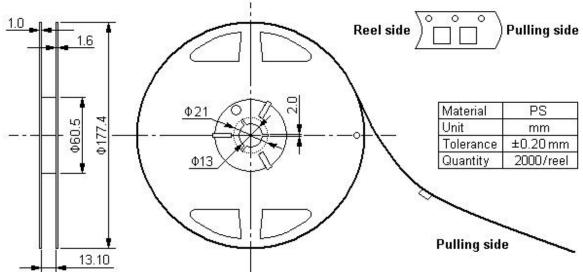


# **Packing Information**

# Carrier Tape







# Outer Packing

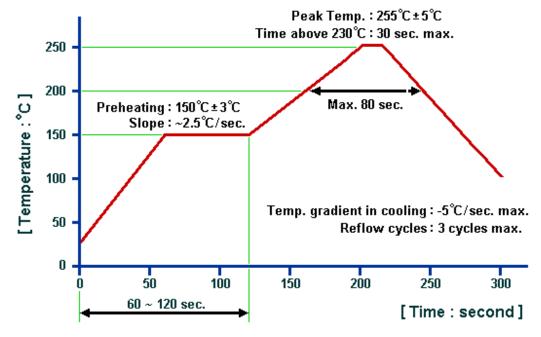
Туре	Quantity	Dimension	Description	Weight
Carton Box I	10000	190×190×95	anti-static plastic bag & carton box 1 reel / bag	0.85
Carton Box II	20000	190×190×190	5 bags / box (10000 pcs) 10 bags / box (20000 pcs)	1.80
	•	l Initi mm		ماياناما

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