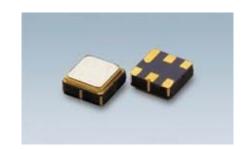


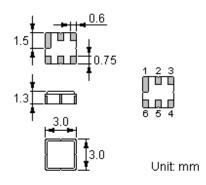
Features

- 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

"8066": Part number

NDF8066

Maximum Ratings

Rating	Value	Unit	
Input Power Level	Р	10	dBm
DC Voltage	$V_{ m DC}$	12	V
Operating Temperature Range	T_{A}	25	°C
Storage Temperature Range	T _{stg}	-40 ~ +85	°C



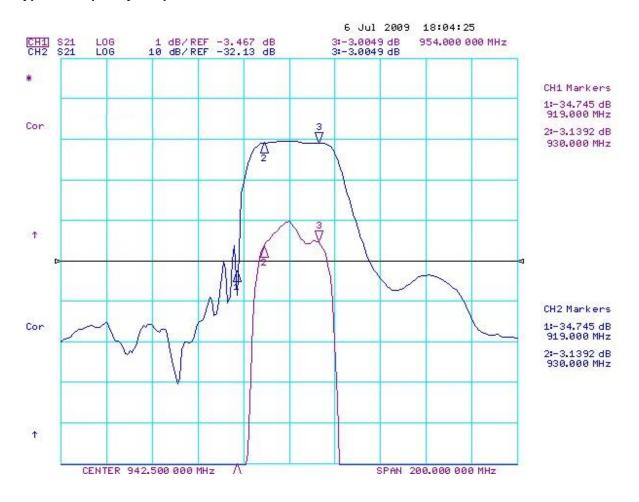
Electrical Characteristics

ltem		Minimum	Typical	Maximum	Unit
Center Frequency	$f_{\mathbb{C}}$		942		MHz
Insertion Loss	IL				
930.00 954.00 MHz			3.0	3.6	dB
Absolute Attenuation	α				
0.3000 900.00 MHz		40	48		dB
900.00 919.00 MHz		20	28		dB
980.00 1000.00 MHz		25	37		dB
1000.00 2000.00 MHz		35	46		dB
Amplitude Ripple (p-p) 930.00 954.00 MHz	Δα		0.8	1.5	dB
Input / Output Impedance (Nominal)			50	•	Ω

® RoHS Compliant

(i) 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.

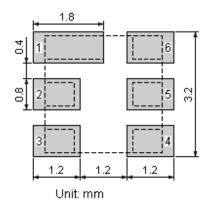
Remarks

- 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

S.S.G. OdBm Ri ₹ ✓ V1

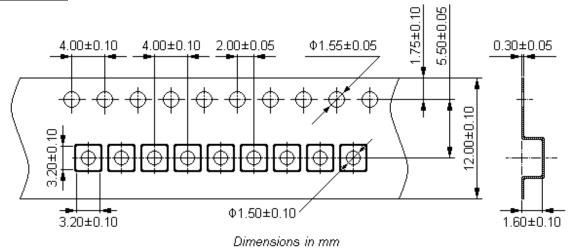
Recommended Land Pattern



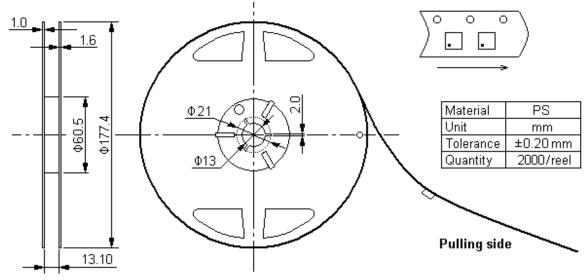


Packing Information

Carrier Tape



Reel Dimensions



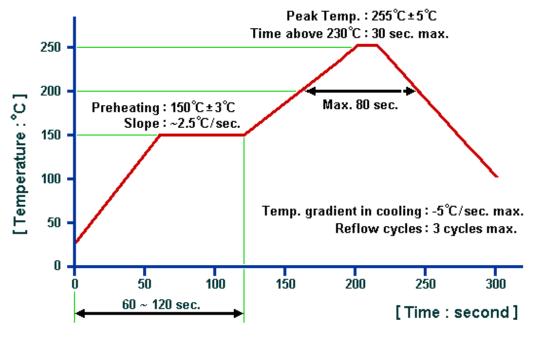
Outer Packing

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



Recommended Soldering Profile



© NEDI 2009. All Rights Reserved.

- 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