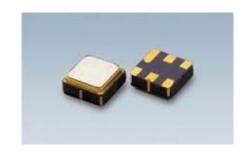


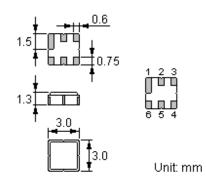
Features

- 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

"9149": Part number

NDF9149

Maximum Ratings

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



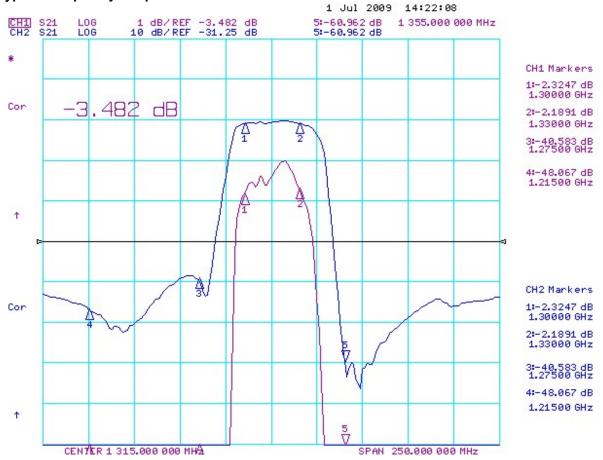
Electrical Characteristics

Item		Minimum	Typical	Maximum	Unit
Center Frequency	f C		1315		MHz
Insertion Loss 1300.00 1330.00 MHz	IL		2.3	3.2	dB
Group Delay Ripple 1300.00 1330.00 MHz			10	40	ns
Absolute Attenuation	α				
0.3000 1215.00 MHz		30	38		dB
1215.00 1275.00 MHz		35	40		dB
1355.00 1455.00 MHz		40	45		dB
1455.002000.00 MHz		35	45		dB
2000.003000.00 MHz		25	36		dB
Amplitude Ripple (p-p) 1300.00 1330.00 MHz	Δα		0.8	1.5	dB
Input/ Output VSWR 1300.00 1330.00 MHz			1.8	2.2	
Input / Output Impedance (Nominal)			50	•	Ω

® RoHS Compliant

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.

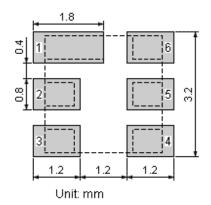
Remarks

- 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

Rg 3 5 6 Ri € ✓ V1 Rg = Ri = 50Ω

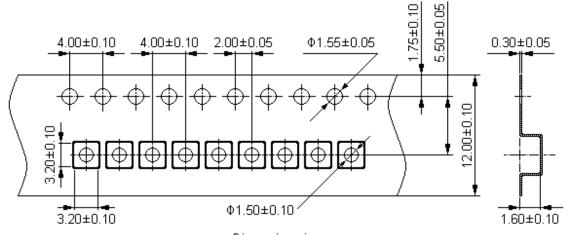
Recommended Land Pattern





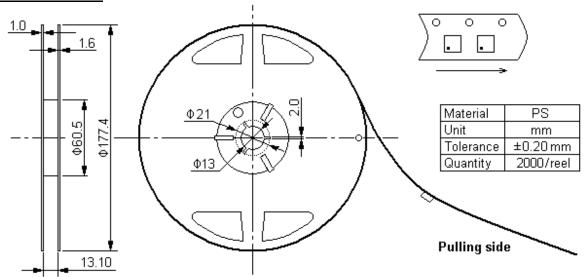
Packing Information

Carrier Tape



Dimensions in mm

Reel Dimensions



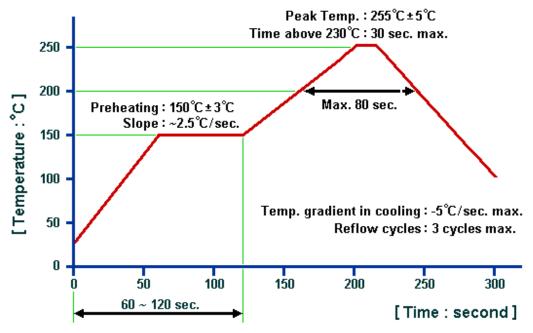
Outer Packing

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
-	•			<u> </u>

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