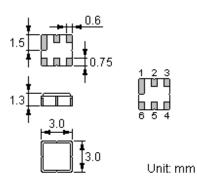


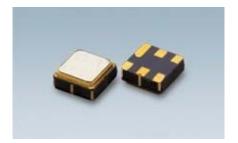
Features

- 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

Part number

"**8106**":

"F": SAW filter

1 2 7 10 11 Code 3 4 5 6 8 9 12 2009 А В С D Е F G Н J Κ L Μ Ρ Q R Т U ٧ W Х Y Ζ 2010 Ν S 2011 а b С d е f g h i. j k m 2012 n t u v z р q r s w х у



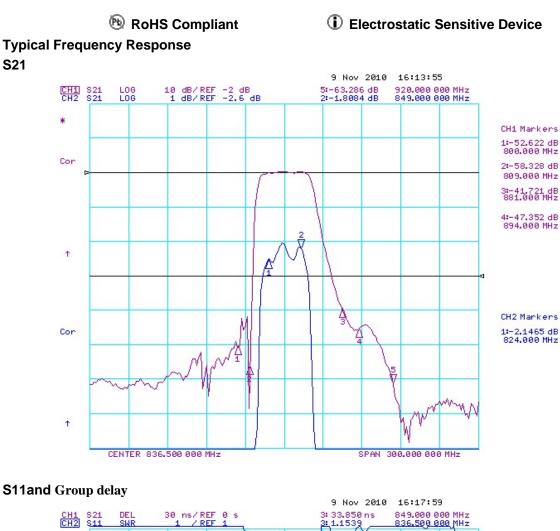
Maximum Ratings

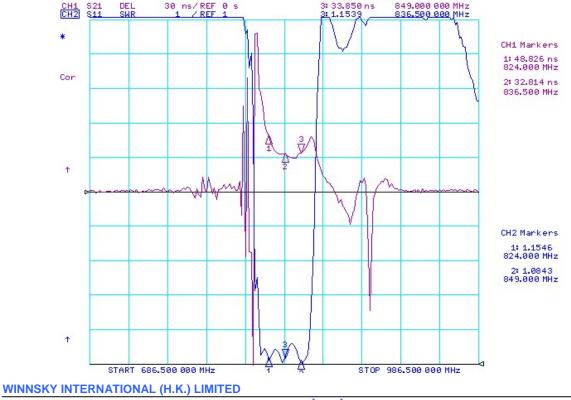
Rating		Value	Unit	
		13.5 dBm CW, Ta=85°C, life time>10 years		
Input Power Level	Ρ	20dBm CW, Ta=85°C, pass band top frequency, test 1000 hours continuously ,electrical characters meet demand;		
		23dBm CW, Ta=85°C, pass band top frequency, test 2 hours		
		continuously ,electrical characters meet demand;		
DC Voltage	V _{DC}	0	V	
Operating Temperature Range	T _A	-40 ~ +85	°C	
Storage Temperature Range	$T_{\rm stg}$	-40 ~ +85	°C	

Electrical Characteristics

	Unit	Minimum	Typical	Maximum	
Center frequency		MHz		836.5	
Insertion Loss (824~849MHz)		dB		2.0	2.6
Amplitude Variation(824~849MHz)		dB		0.6	1.0
Group delay Variation(824~849MHz)		ns		30	50
	DC~800MHz	dB	50		
	800~809MHz	dB	30	37	
	881~894MHz	dB	34	39	
	894~920MHz	dB	40	45	
Absolute	920~1210MHz	dB	50	55	
Attenuation	1210~1500MHz	dB	48	50	
	1500~2000MHz	dB	42	48	
	2000~2600MHz	dB	32		
	2600~3000MHz	dB	28		
Input/ Output VSWR (824~849MHz)		dB		1.5	2.0
RF Power		dBm			+20
Input/Output Impedance		ohm		50	





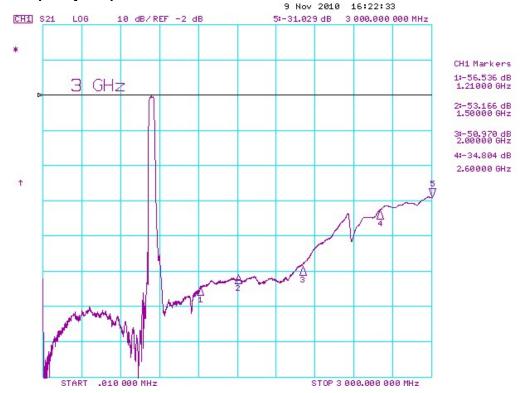


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Far-side Frequency Response



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(b) Amplitude: 1.5 mm(c) Directions: X,Y and Z(d) Duration: 2 hours		
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (b) Duration: 96 hours (c) Wait 4 hours before measurement		
4	Climatic sequence	(a) +70°C for 16 hours (b) +55°C for 24 hours, 90~95% R.H. (c) -25°C for 2 hours (d) +40°C for 24 hours, 90~95% R.H. (e) Wait 4 hours before measurement		
5	High temperature exposure	(a) Temperature: 70°C (b) Duration: 250 hours (c) Wait 4 hours before measurement		
6	Thermal impact	(a) +70°C for 30 minutes \Rightarrow -25°C for 30 minutes repeated 3 times (b) Wait 4 hours before measurement		

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

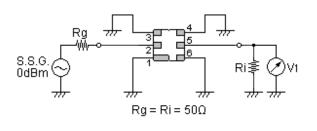


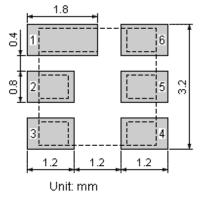
Remarks

- 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.

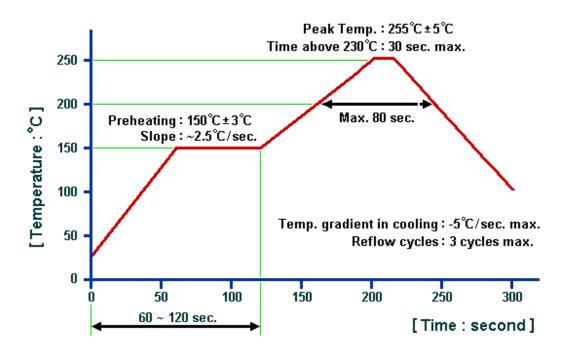
Test Circuit

Recommended Land Pattern





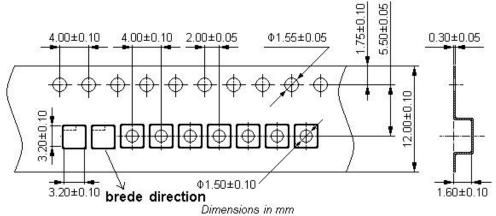
Recommended Soldering Profile



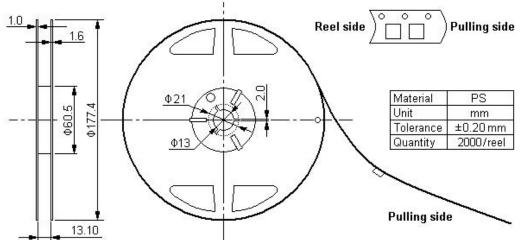


Packing Information





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