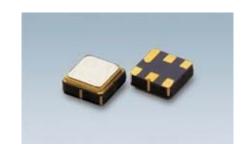


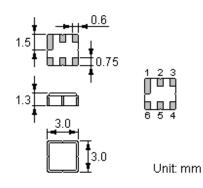
Features

- 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

"**8156**": Part number "•": Terminal 1

"*": 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	T	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			
	Р	13.5 dBm CW, Ta=85°C, life time>10 years				
Input Power Level		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	$V_{ m DC}$	12	V			
Operating Temperature Range	T _A	-40 ~ +85	°C			
Storage Temperature Range	$T_{ m stg}$	-40 ~ +85	°C			



Electrical Characteristics

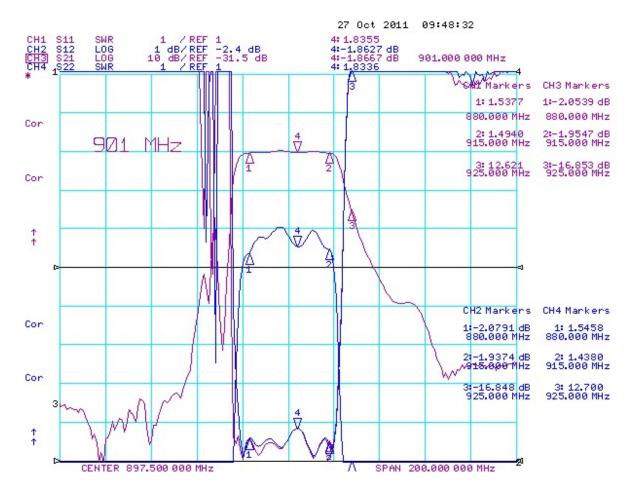
	Parameter	Unit	Minimum	Typical	Maximum
(Center frequency	MHz		897.5	
U	seable bandwidth	MHz		35	
Insert	ion Loss (880~915MHz)	dB		2.0	2.3
Amplitud	de Variation(880~915MHz)	dB		0.8	1.0
	0.3~620MHz	dB	40	60	
	620~840MHz	dB	45	60	
	925~935MHz	dB	10	16	
	935~960MHz	dB	20	30	
Absolute	1200~1400MHz	dB	40	50	
Attenuation	1950~1990MHz	dB	40	45	
	1990~2035MHz	dB	38	43	
	3000~3400MHz	dB	20	23	
	3400~5000MHz	dB	10	12	
Input/Output VSWR (880~915MHz)		dB		1.8: 1	2.0: 1
RF Power		dBm			+23
Inp	ut/Output Impedance	ohm		50	

[®] RoHS Compliant

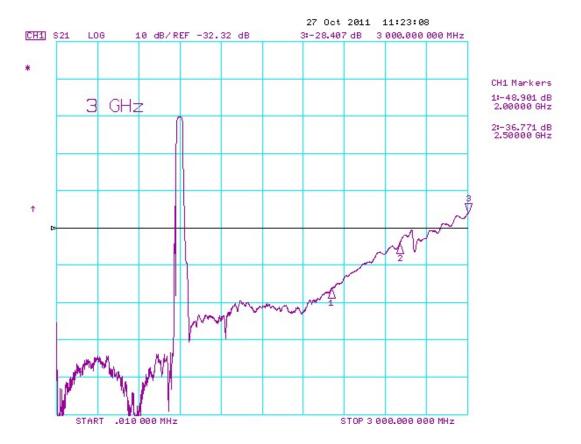
Typical Frequency Response

Electrostatic Sensitive Device











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			

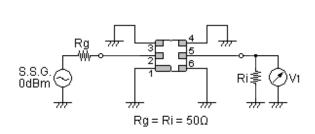
Requirements: The SAW filer shall remain within the electrical specifications after tests.

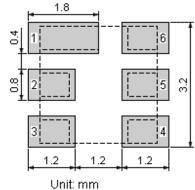
Remarks

- 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

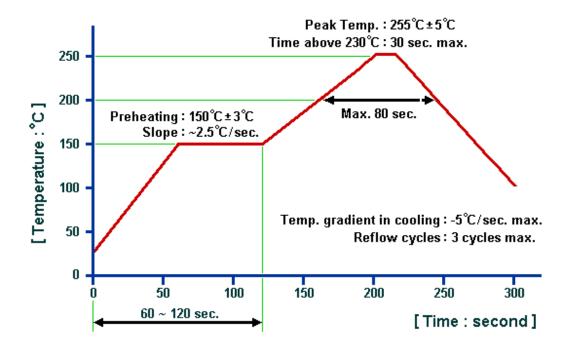
Recommended Land Pattern







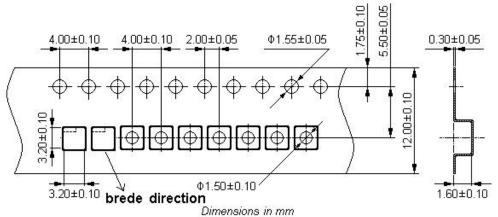
Recommended Soldering Profile



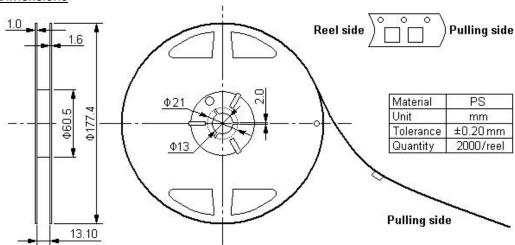


Packing Information

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					

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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