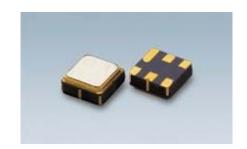


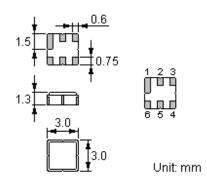
Features

- 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

"9199": Part number

* 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
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
2014	N	Р	Q	R	S	Т	U	V	W	Х	Υ	Z



Maximum Ratings

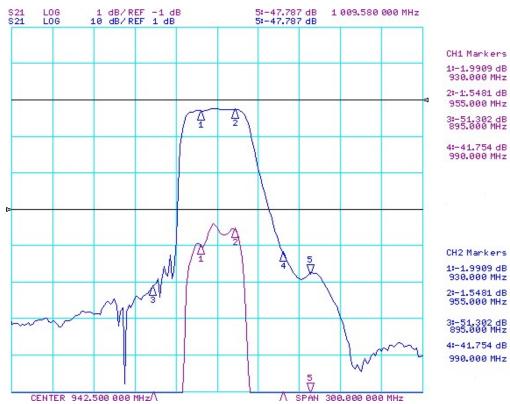
Rating		Value	Unit
Input Power Level	Р	20	dBm
DC Voltage	$V_{ m DC}$	12	V
Operating Temperature Range	T_{A}	-40 ~ +85	°C
Storage Temperature Range	T_{stg}	-40 ~ +85	°C

Electrical Characteristics

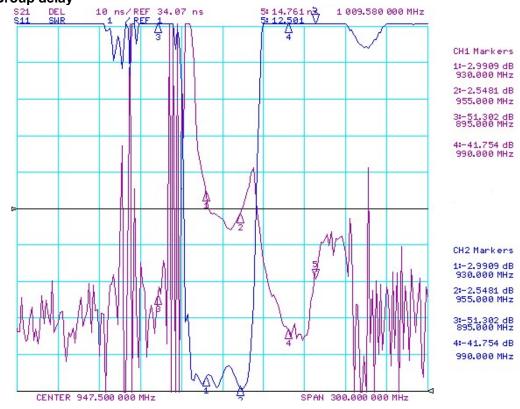
Parameter			Minimum	Typical	Maximum			
C	MHz		942.5					
Inserti	Insertion Loss (930~955MHz)			2.0	3.0			
Amplitud	Amplitude Variation(930~955MHz)			Amplitude Variation(930~955MHz)			0.6	1.0
Group del	lay Variation(930~955MHz)	ns		30	50			
	DC~895MHz	dB	50					
	895~910MHz	dB	30	37				
	990~1020MHz	dB	35	40				
	1020~1050MHz	dB	40	45				
Absolute	1050~1210MHz	dB	50	55				
Attenuation	1210~1800MHz	dB	48	50				
	1800~2000MHz	dB	42	48				
	2000~2600MHz	dB	32					
	2600~3000MHz	dB	28					
Input/ Outpu	Input/ Output VSWR (930~955MHz)			1.5	2.0			
	RF Power	dBm			+20			
Inpu	ut/Output Impedance	ohm		50				



Typical Frequency Response S21

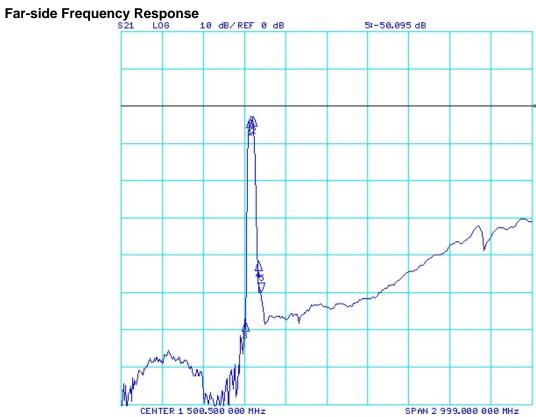


S11and Group delay









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 m (b) Wait 4 hours before measurement	inutes repeated 3 times		

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

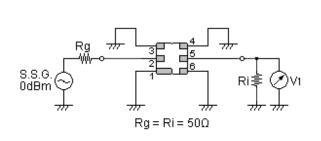


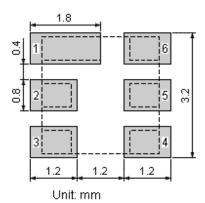
Remarks

- 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.

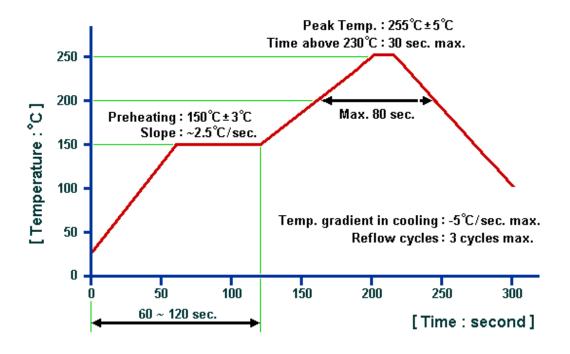
Test Circuit

Recommended Land Pattern





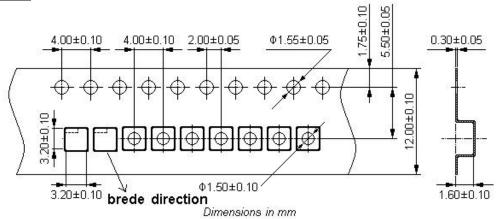
Recommended Soldering Profile



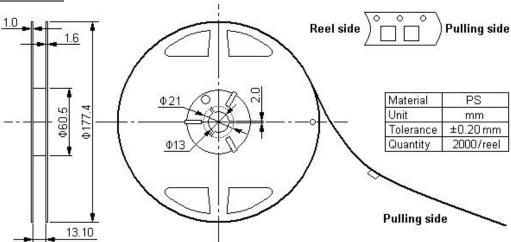


Packing Information

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		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