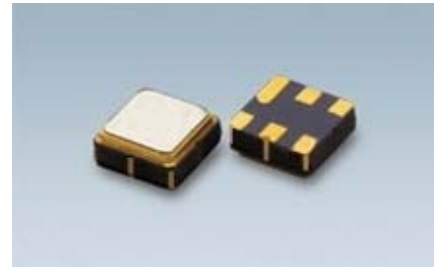


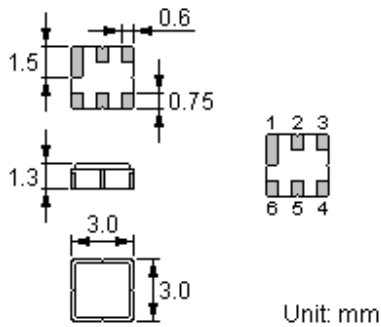
**Features**

- 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  
 "5074": Part number

Code	1	2	3	4	5	6	7	8	9	10	11	12
2011	a	b	c	d	e	f	g	h	i	j	k	m
2012	n	p	q	r	s	t	u	v	w	x	y	z
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z

**Maximum Ratings**

Rating		Value	Unit
Input Power Level	$P$	1) 15dBm CW, $T_a=95$ 度, 通带高频点, life time>10年; 2) 23 dBm CW, $T_a=95$ 度, 通带高频点, 连续测试2hr内, 电气性能满足规格要求; 3) 20dBm CW, $T_a=95$ 度, 通带高频点, 连续测试 1000hr 内, 电气性能满足规格要求;	dBm
DC Voltage	$V_{DC}$	12	V
Operating Temperature Range	$T_A$	-40 ~ +85	°C
Storage Temperature Range	$T_{stg}$	-40 ~ +85	°C

Electrical Characteristics (@ 25°C)

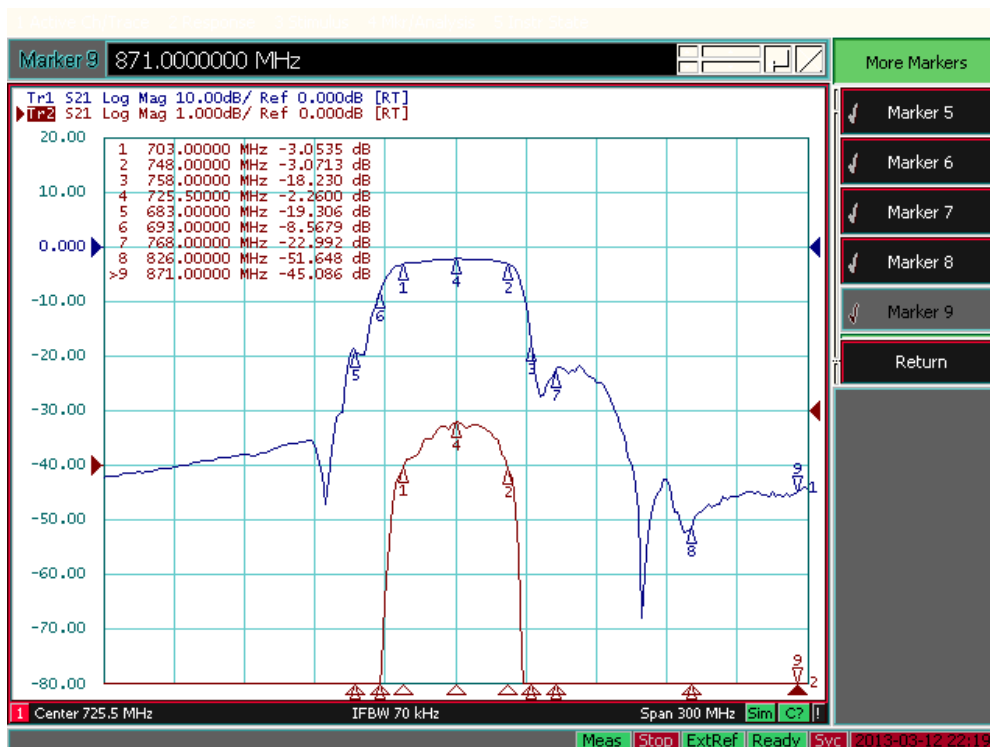
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz		725.5	
Insertion Loss (703~748MHz)	dB		2.8	3.5
Amplitude Variation(703~748MHz)	dB		1.1	1.5
Group delay Variation(703~748MHz)	ns		10	33
Absolute Attenuation	10~470MHz	dB	35	38
	470~665MHz	dB	30	33
	665~693MHz	dB	6	7
	758~768MHz	dB	11	15
	768~826MHz	dB	18	20
	826~1000MHz	dB	32	35
	1000~1500MHz	dB	30	33
1500~3000MHz	dB	20	23	
Input/Output Return Loss(703~748MHz)	dB	12	15	
Input/Output Impedance	ohm		50	

RoHS Compliant

Electrostatic Sensitive Device

Typical Frequency Response

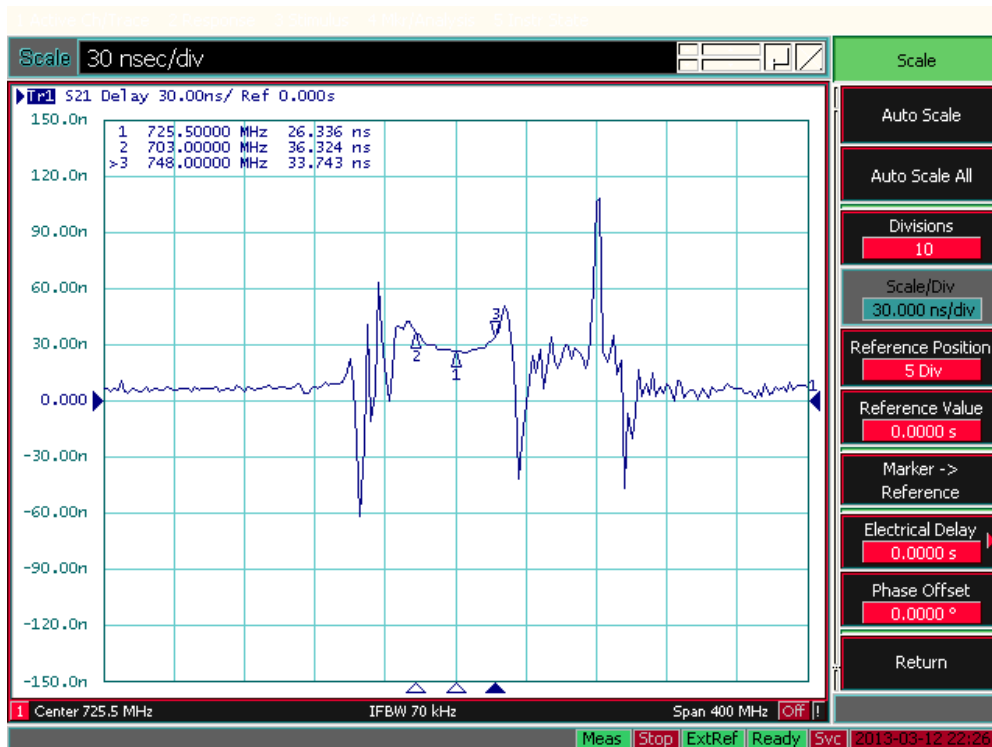
S21



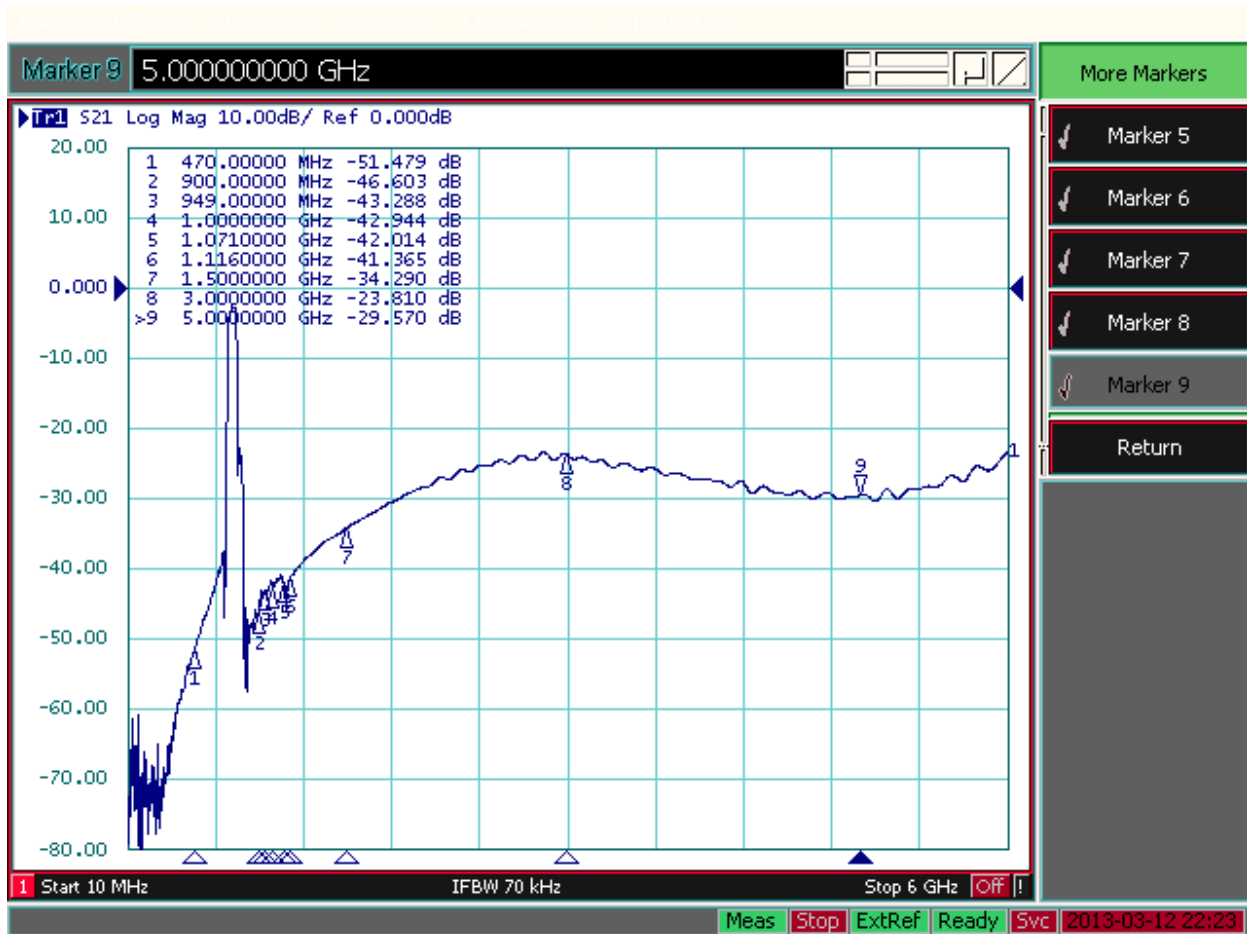
S11 S22



Group delay



Far side



Stability Characteristics

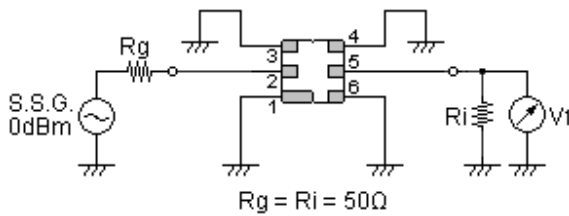
	Test item	Condition of test
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (c) Directions: X,Y and Z (b) Amplitude: 1.5 mm (d) Duration: 2 hours
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (c) Wait 4 hours before measurement (b) Duration: 96 hours
4	Climatic sequence	(a) +70°C for 16 hours (c) -25°C for 2 hours (e) Wait 4 hours before measurement (b) +55°C for 24 hours, 90~95% R.H. (d) +40°C 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 minutes repeated 3 times (b) Wait 4 hours before measurement

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

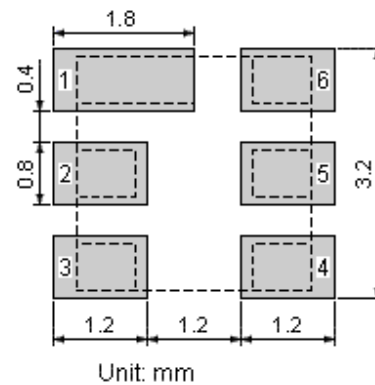
**Remarks**

- 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.

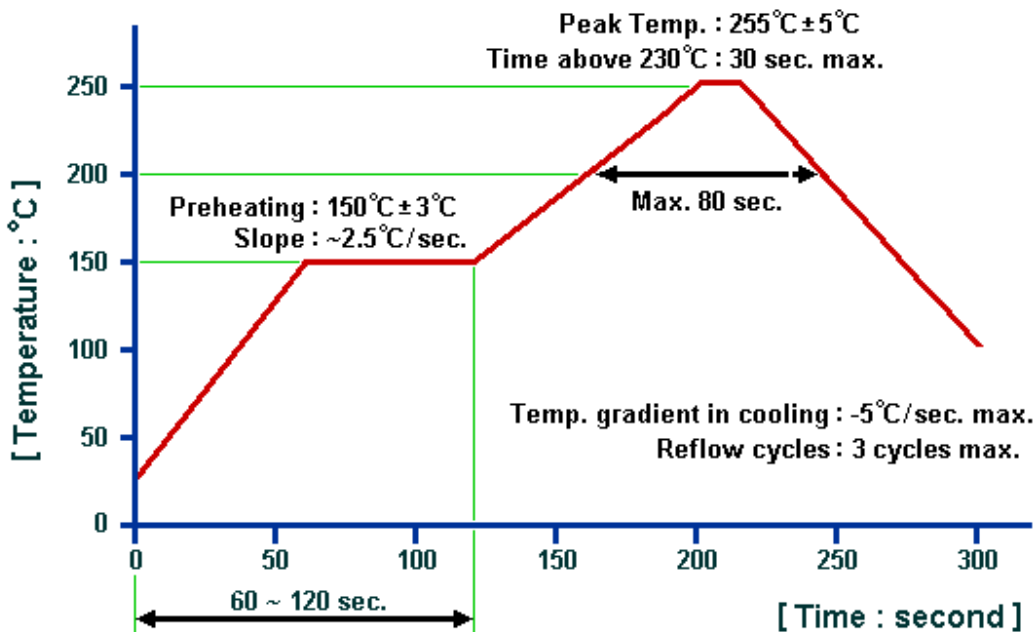
**Test Circuit**



**Recommended Land Pattern**

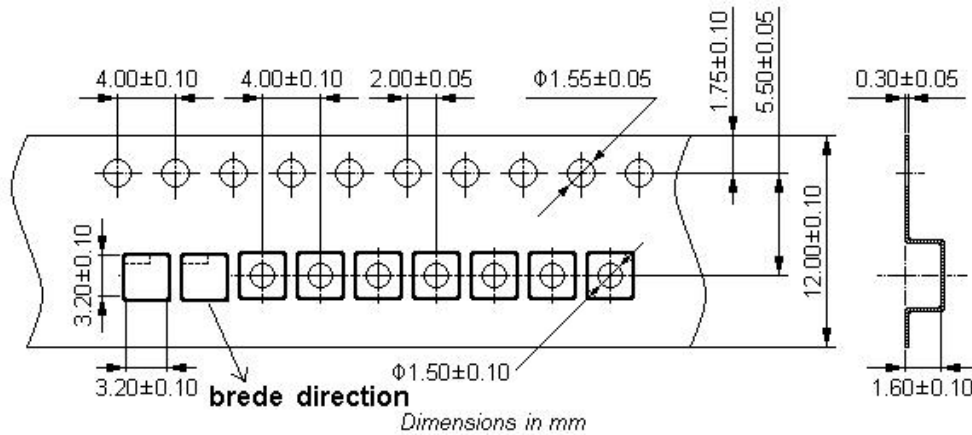


**Recommended Soldering Profile**

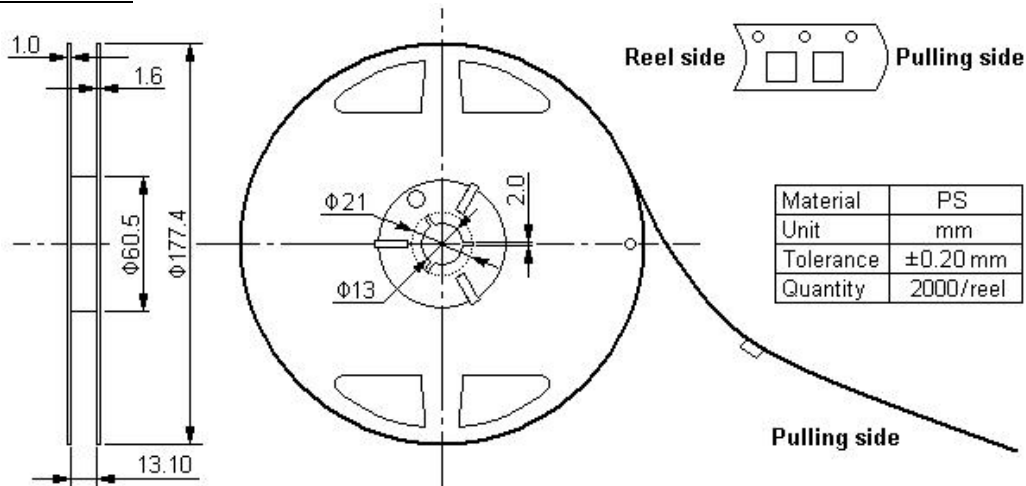


**Packing Information**

Carrier Tape



Reel Dimensions



Outer Packing

Type	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](mailto:winnsky@winnsky.com)