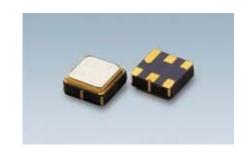
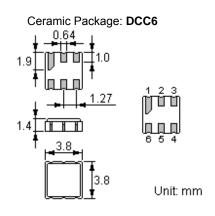


Features

- Low-loss RF filter
- High Rejection
- Single Ended Operation at 50Ω without matching
- Ceramic Package for Surface Mounted Technology (SMT)
- Lead-free Production and RoHS Compliance



Package Dimensions



Pin Configuration

2	Input
5	Output
1, 3, 4, 6	Case Ground
1, 3, 4, 6	To Be Grounded

Marking



Top View, Laser Marking

"ND": Manufacturer's mark "F": SAW filter "5040": 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
2009	Α	В	С	D	Е	F	G	Н	J	K	L	М
2010	N	Р	Q	R	S	Т	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

Maximum Ratings

Rating	Value	Unit	
Operating Temperature Range	T_{A}	-40 ~ +85	°C
Storage Temperature Range	$T_{ m stg}$	-40 ~ +85	°C
DC Voltage (between any Terminals)	$V_{ m DC}$	0	V
RF Power (in BW)	Р	15	dBm



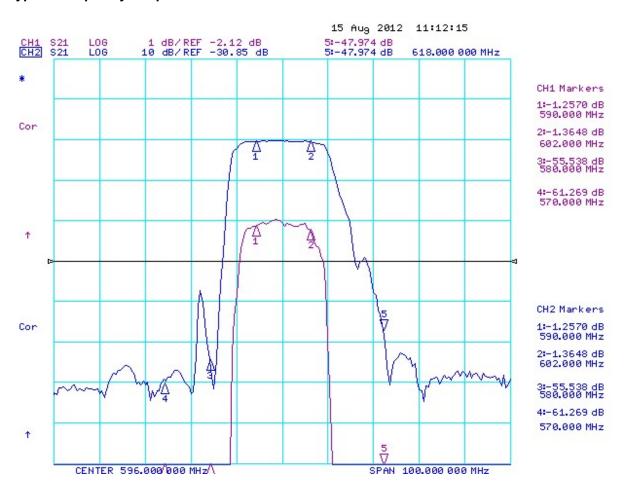
Electrical Characteristics

Item		Minimum	Typical	Maximum	Unit
Center Frequency	f _C		596		MHz
Insertion Loss	IL				
590.00 602.00 MHz			1.8	2.5	dB
Group Delay Ripple 590.00 602.00 MHz			30	80	ns
Absolute Attenuation	α				
0.3 570.00 MHz		45	55		dB
570.00580.0 MHz		30	35		dB
618.00625.0 MHz		35	40		dB
625.001000.0 MHz		45	55		dB
1000.002000.00 MHz		25	32		dB
Amplitude Ripple (p-p) 590.00 602.00 MHz	Δα		0.8	1.5	dB
Intput VSWR 590.00 602.00 MHz			1.5: 1	2.0: 1	
Output VSWR 590.00 602.00 MHz			1.5: 1	2.0: 1	
Input / Output Impedance (Nominal)	50			Ω	

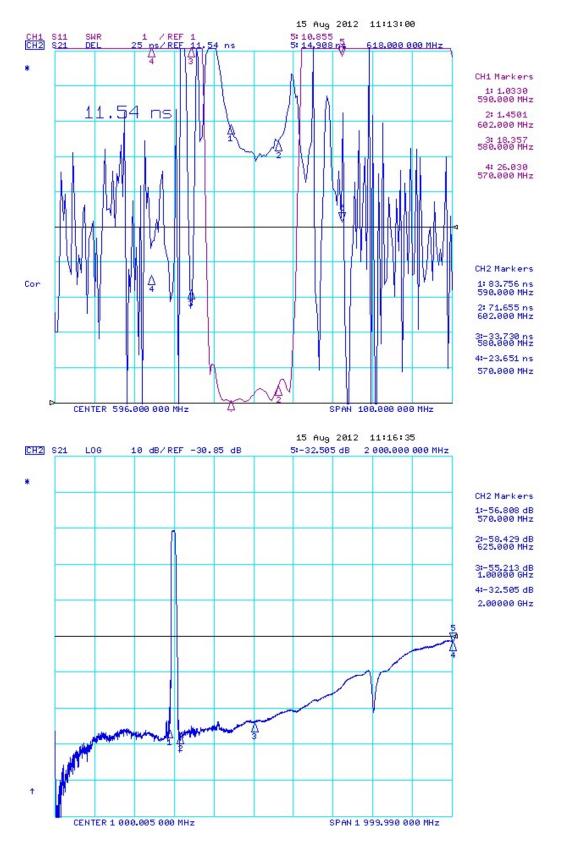
® RoHS Compliant

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	1, ,	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 minutes (b) Wait 4 hours before measurement	nutes repeated 3 times			

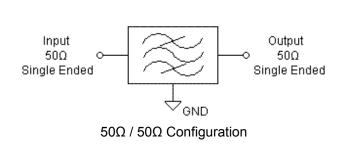
Requirements: The SAW filer shall remain within the electrical specifications after tests.

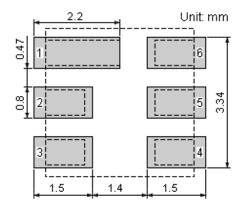
Remarks

- 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

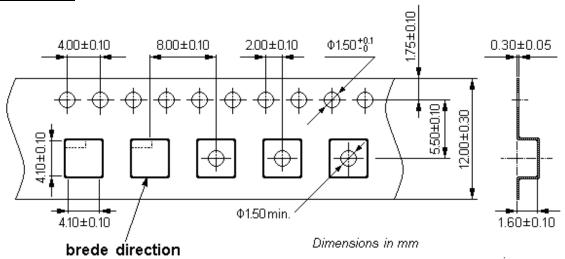




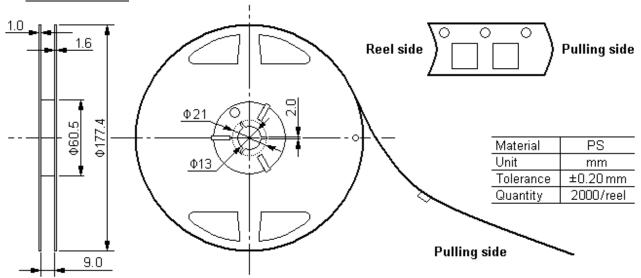


Packing Information

Carrier Tape



Reel Dimensions



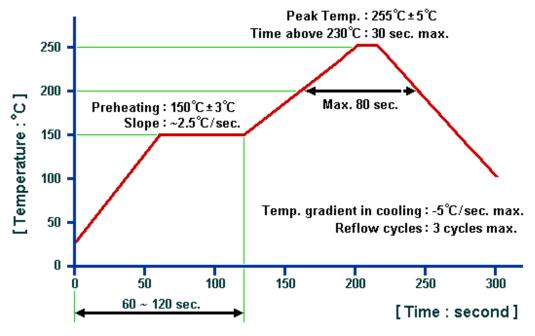
Outer Packing

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)	1.70

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.
- 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

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