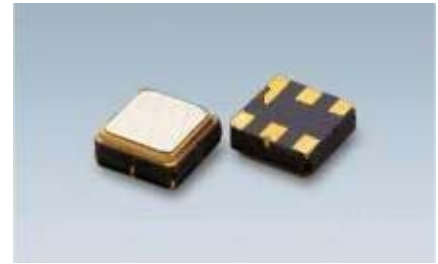


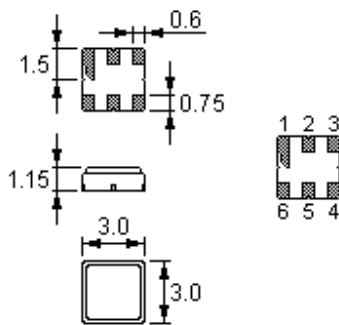
Features

- Low-loss RF filter
- High Rejection
- Ceramic Package for **Surface Mounted Technology (SMT)**
- Single / Balanced operation without matching
- Lead-free production and **RoHS** compliance



Package Dimensions

Ceramic Package: **DCC6D**



Unit: mm, approx weight 37mg

Pin Configuration

2	Input
4, 6	Output
1, 3	Case ground
1, 3, 5	to be Grounded

Marking



Top View, Laser Marking

- "ND": Manufacturer's mark
- "8076": Part number
- "*": Lot number (The code shown below varies in a 4-year cycle)
- "F": SAW filter
- ".": Terminal 1

Code	1	2	3	4	5	6	7	8	9	10	11	12
2009	A	B	C	D	E	F	G	H	J	K	L	M
2010	N	P	Q	R	S	T	U	V	W	X	Y	Z
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

Maximum Ratings

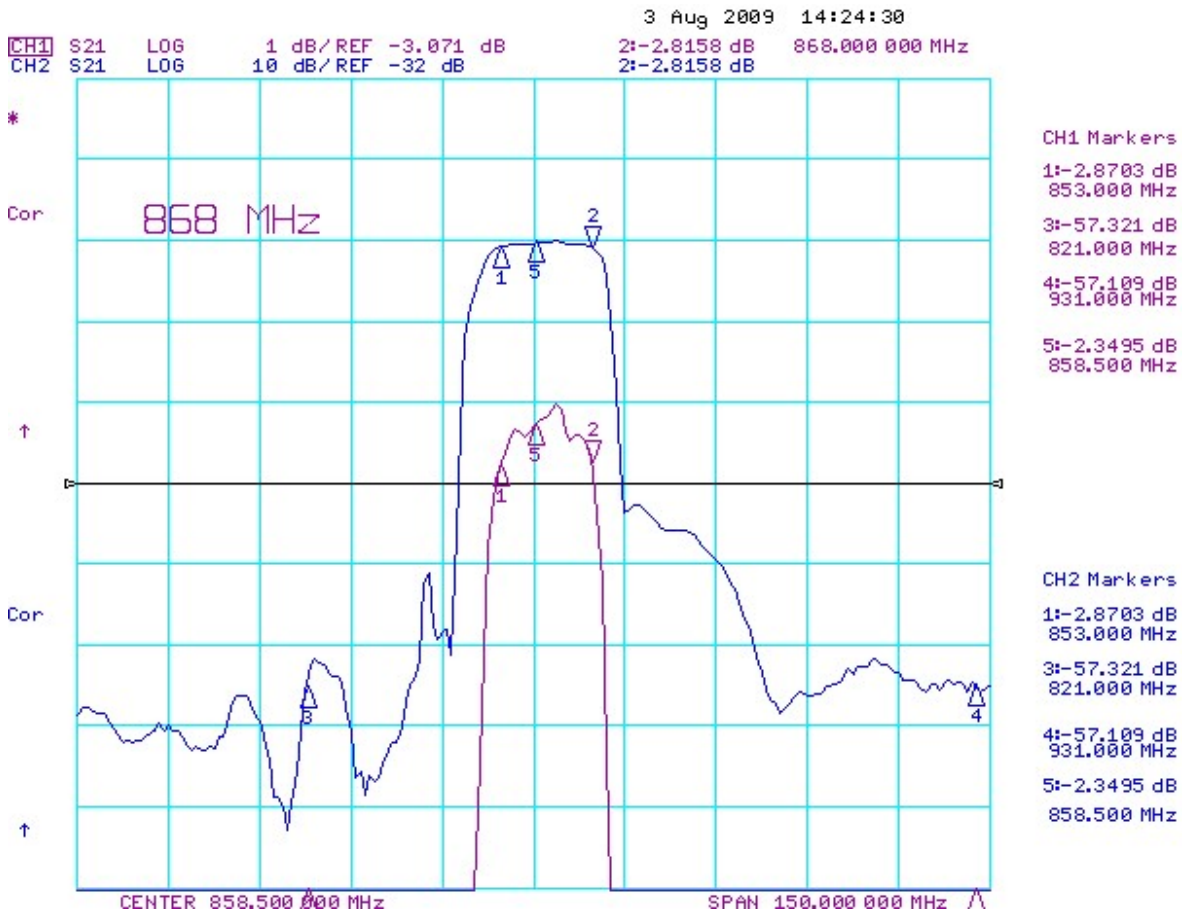
Rating	Value	Unit
Operating Temperature Range	T_A	-40 ~ +85 °C
Storage Temperature Range	T_{stg}	-40 ~ +85 °C
RF Power (in BW)	P	10max. dBm
ESD Voltage (HB)	V_{ESD}	150 V

Electrical Characteristics

Item		Minimum	Typical	Maximum	Unit
Center Frequency	f_c	-	858.5	-	MHz
Maximum Insertion Loss in 851 MHz–866 MHz	IL	-	2.8	3.5	dB
Absolute Attenuation	α				
300 kHz ... 806 MHz		40	56	-	dB
806 MHz ... 821 MHz		50	56	-	dB
931 MHz ... 955 MHz		40	55	-	dB
955 MHz ... 1060MHz		42	55	-	dB
1060 MHz ... 2600 MHz		30	55	-	dB
Amplitude imbalance		-1		1	dB
Phase imbalance		-10		10	Deg
Amplitude Variation in 851 MHz–866 MHz	$\Delta\alpha$	-	0.6	1.5	dB
Input VSWR in 851 MHz–866 MHz		-	1.5:1	2.0:1	-
Output VSWR in 851 MHz–866 MHz		-	1.5:1	2.0:1	-
Source Impedance (single ended)		-	50	-	Ω
Load Impedance (balanced)		-	100	-	Ω

RoHS Compliant

Electrostatic Sensitive Device



Stability Characteristics

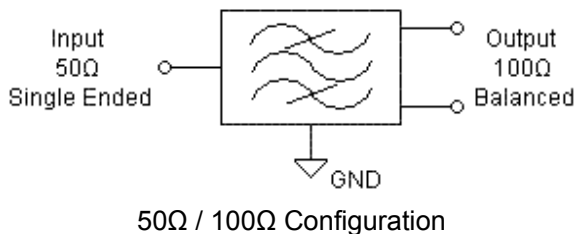
	Test item	Condition of test
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (c) Directions: X,Y and Z (b) Amplitude: 1.5 mm (d) Duration: 2 hours
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (c) Wait 4 hours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

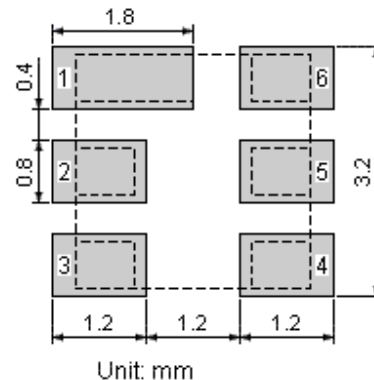
Remarks

- 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

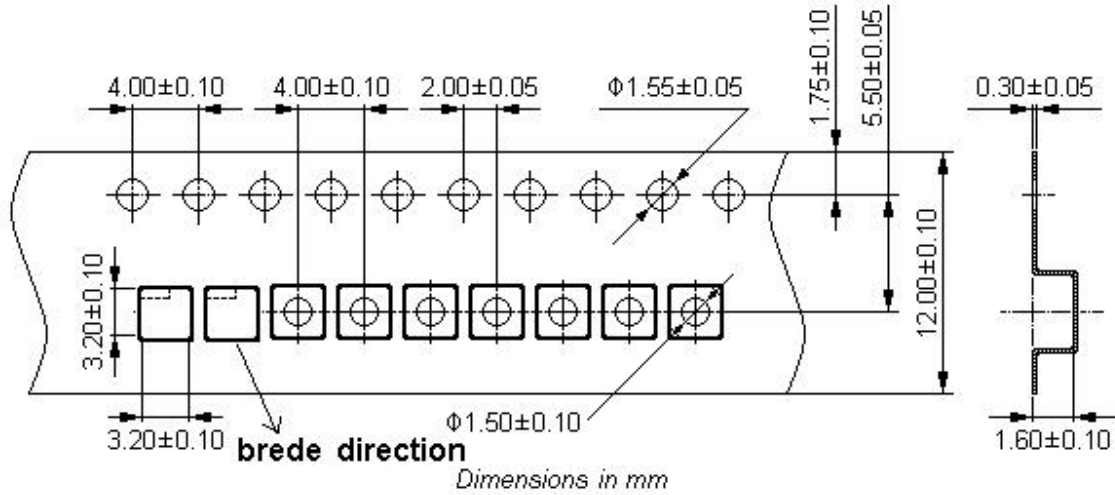


Recommended Land Pattern

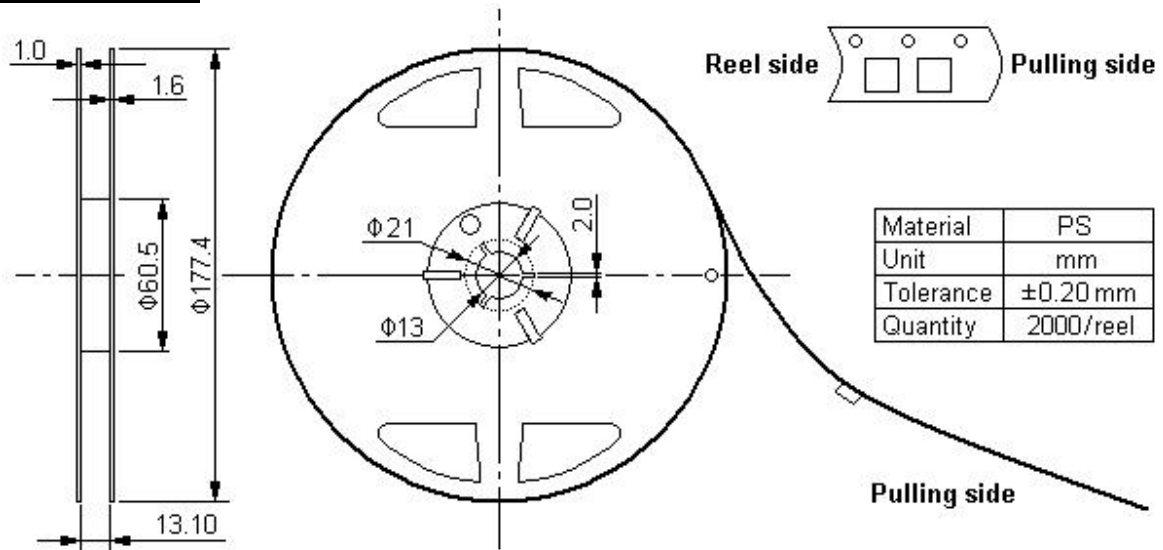


Packing Information

Carrier Tape



Reel Dimensions



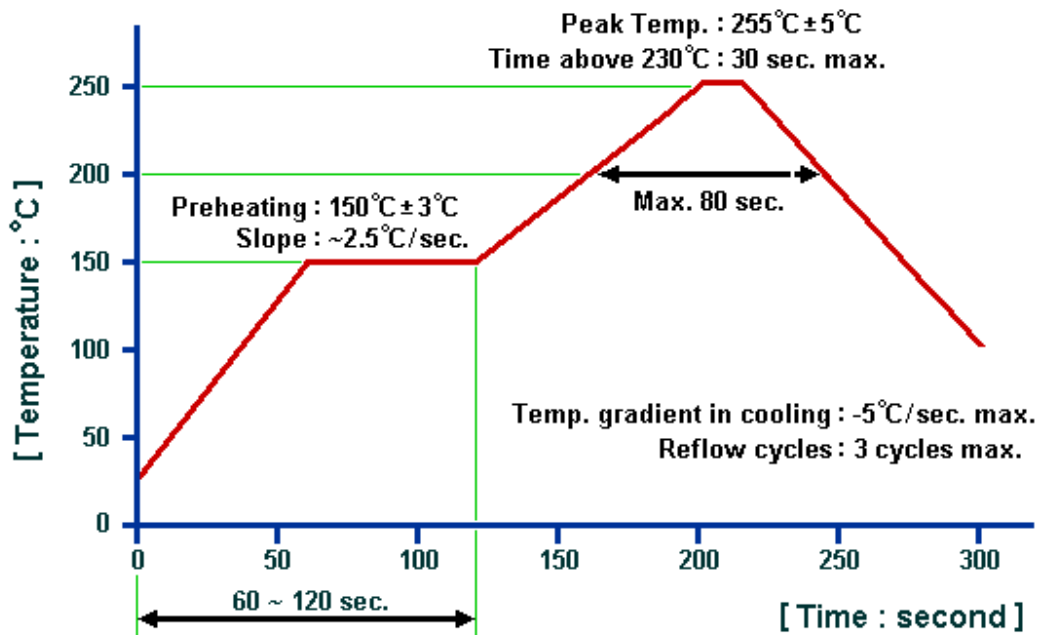
Outer Packing

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)	1.70

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