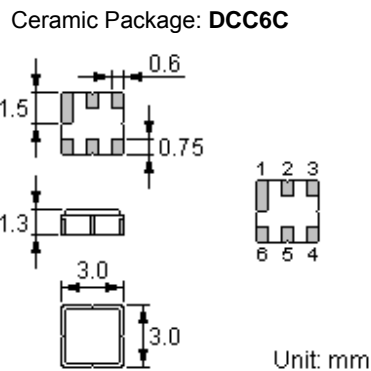


**Features**

- 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
- "9374": 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
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**

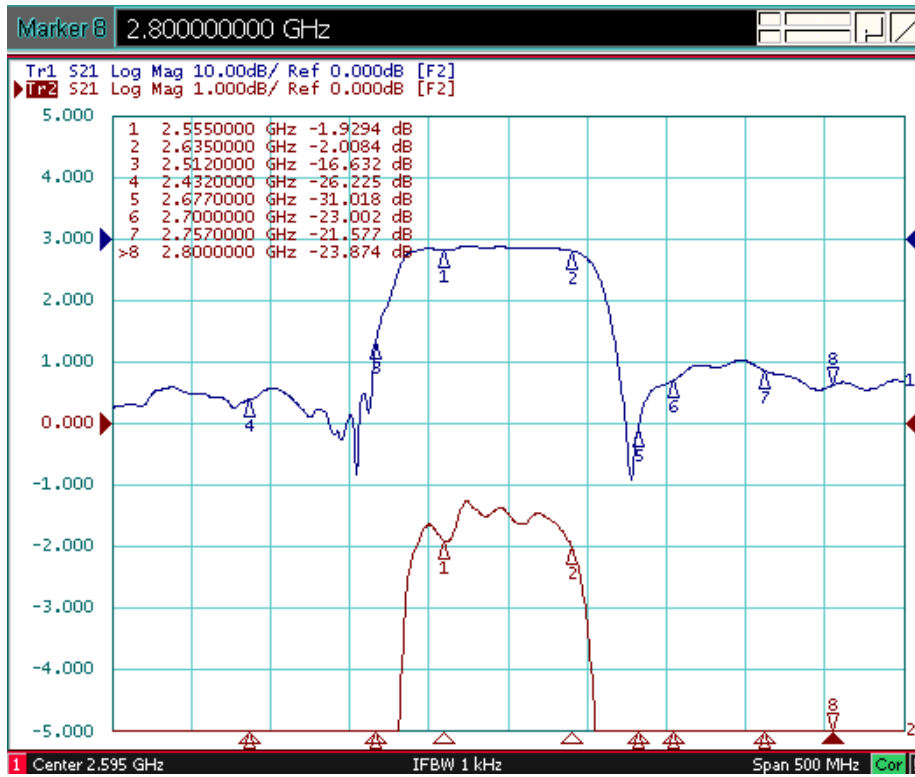
Rating		Value	Unit
Input Power Level	$P$	15dBm CW, $T_a=85^{\circ}\text{C}$ ,	dBm
DC Voltage	$V_{\text{DC}}$	0	V
Operating Temperature Range	$T_A$	-40 ~ +85	$^{\circ}\text{C}$
Storage Temperature Range	$T_{\text{stg}}$	-40 ~ +85	$^{\circ}\text{C}$
ESD-HBM for all pin	$E_{\text{SD}}$	150	V

**Electrical Characteristics**

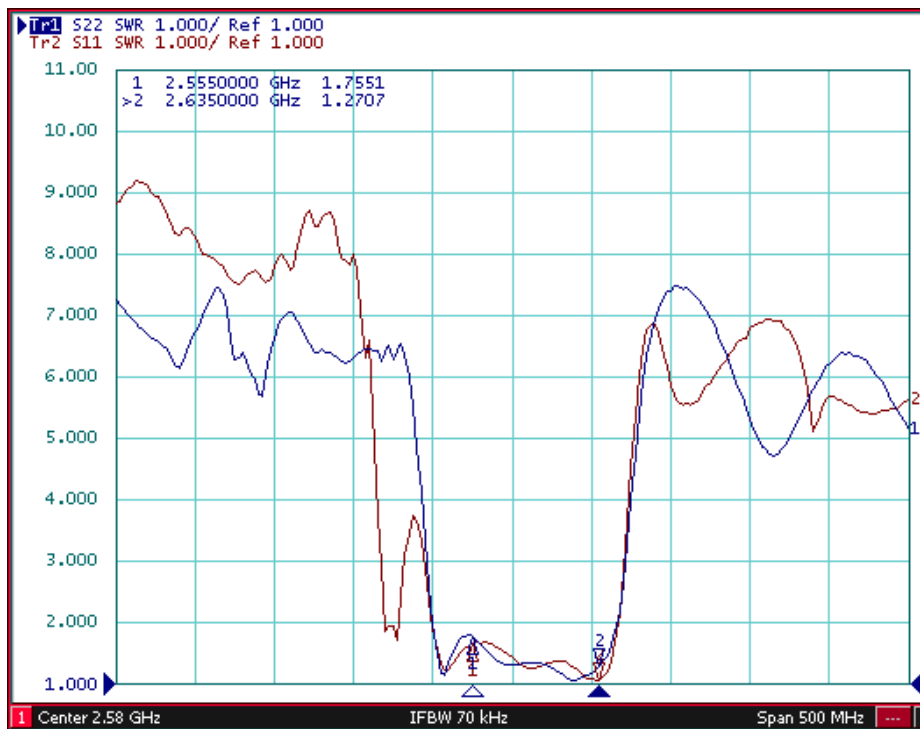
Item		Minimum	Typical	Maximum	Unit
Center Frequency	$f_c$	-	2595	-	MHz
Insertion Loss in <b>2555 MHz–2635 MHz</b>	$IL$	-	2.2	3.0	dB
Amplitude Variation in <b>2555 MHz–2635 MHz</b>			0.7	1.5	dB
Passband Ripple 2555.00 .... 2615.00 MHz(60M)			0.7	1	dB
Passband Ripple 2575.00 .... 2635.00 MHz(60M)			0.7	1	
Relative Attenuation	$\alpha$				dBc
Dc ... 2025.0 MHz		25	30	-	dBc
2110.0 ... 2170.0 MHz		25	27	-	dBc
2170.0 ... 2432.0 MHz		20	24	-	dBc
2432.0 ... 2512.0 MHz		5	14	--	dBc
2677.0 ... 2700.0 MHz		20	22	--	dBc
2700.0 ... 2757.0 MHz		16	20	--	dBc
2800.0 ... 3400.0 MHz		12	21	--	dBc
3400.0 ... 3800.0 MHz		20	22	--	dBc
3800.0 ... 5000.0 MHz		13	25	--	dBc
5000.0 ... 6000.0 MHz		8	22	--	dBc
6000.0 ... 8500.0 MHz		3	10	--	dBc
Input VSWR in <b>2555 MHz–2635 MHz</b>		-	1.8:1	2.0:1	
Output VSWR in <b>2555 MHz–2635 MHz</b>		-	1.8:1	2.0:1	
Group delay ripple <b>2555 MHz–2635 MHz</b>			5	15	ns
Source / Load Impedance (single ended)			50		$\Omega$

 **RoHS Compliant**
 **Electrostatic Sensitive Device**

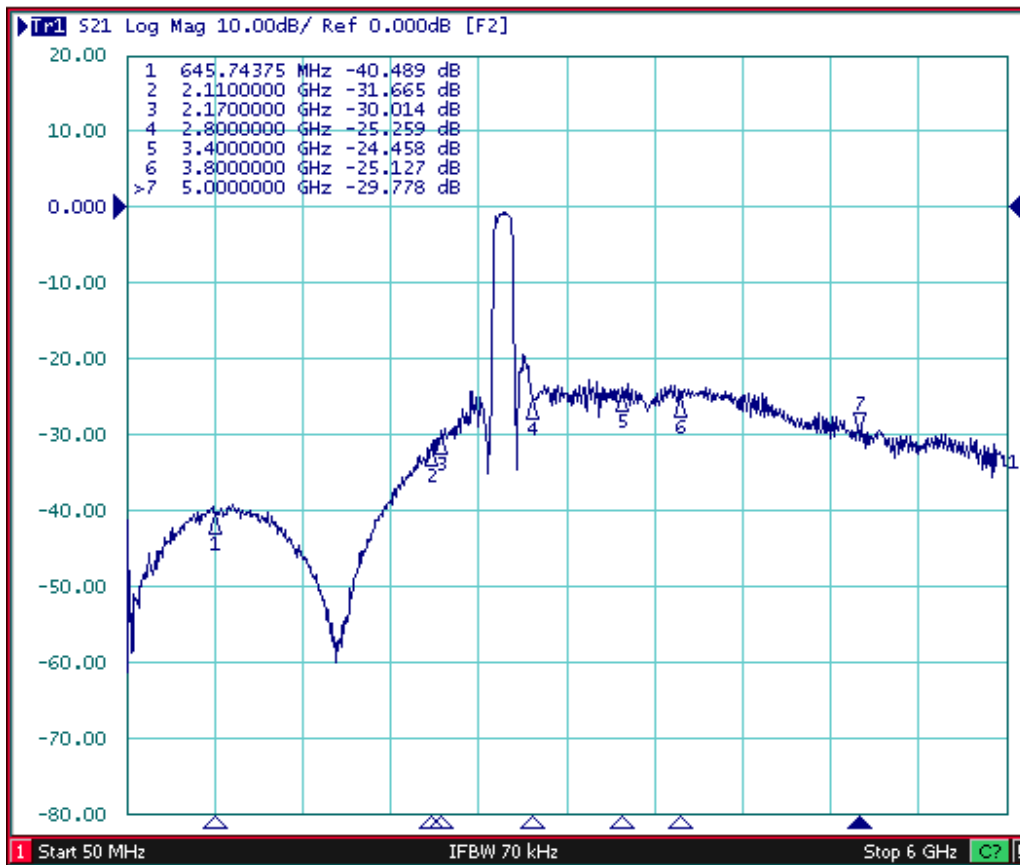
Typical Frequency Response



S11 S22



S21 Far side



Stability Characteristics

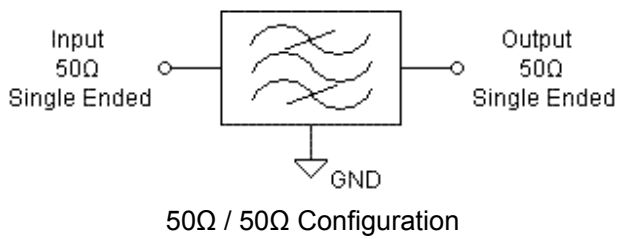
	Test item	Condition of test
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (b) Amplitude: 1.5 mm (c) Directions: X,Y and Z (d) Duration: 2 hours
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (b) Duration: 96 hours (c) Wait 4 hours before measurement
4	Climatic sequence	(a) +70°C for 16 hours (b) +55°C for 24 hours, 90~95% R.H. (c) -25°C for 2 hours (d) +40°C for 24 hours, 90~95% R.H. (e) Wait 4 hours before measurement
5	High temperature exposure	(a) Temperature: 70°C (b) Duration: 250 hours (c) Wait 4 hours before measurement
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.

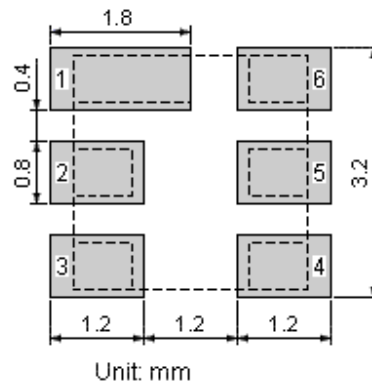
**Remarks**

- 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**

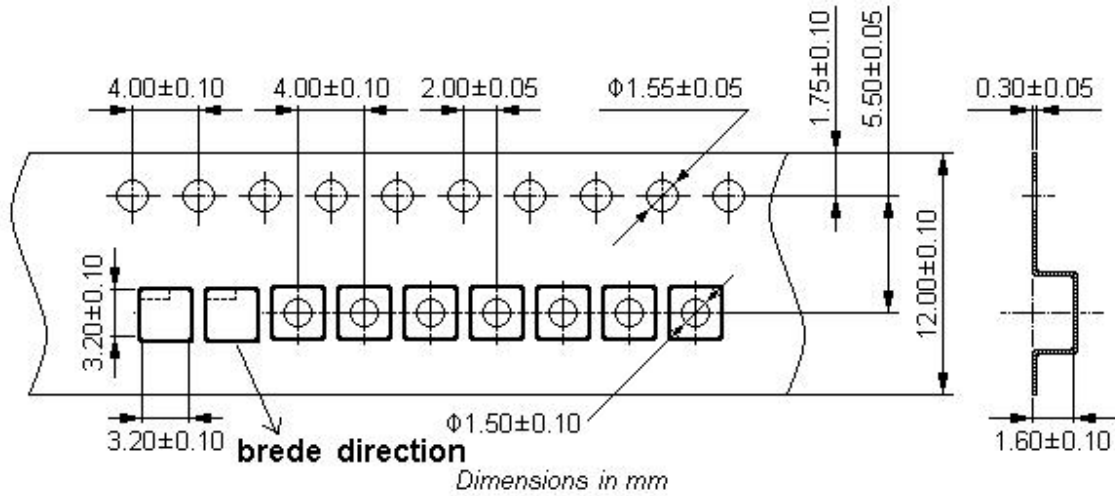


**Recommended Land Pattern**

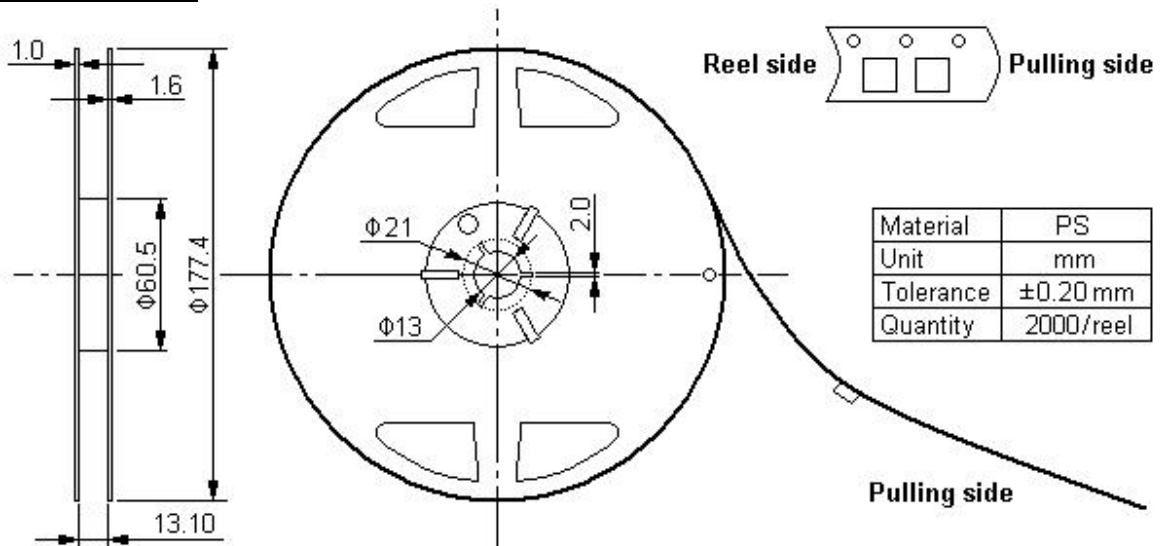


**Packing Information**

Carrier Tape



Reel Dimensions



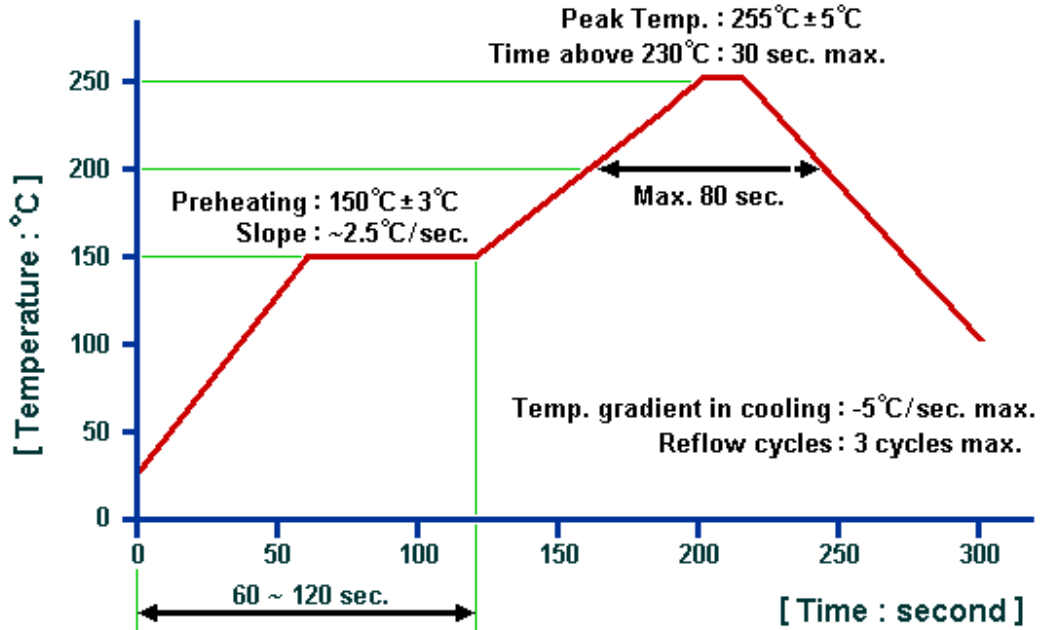
Outer Packing

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](mailto:winnsky@winnsky.com).