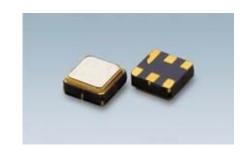


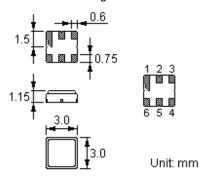
Features

- Low-loss RF filter for CDMA450 Block A&B(Tx)
- High Rejection
- Single / Balance Operation without matching
- Ceramic Package for Surface Mounted Technology (SMT)
- Lead-free Production and RoHS Compliance



Package Dimensions

Ceramic Package: DCC6D



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 "F": SAW filter

"4132": 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
2005	Α	В	С	D	Е	F	G	Н	J	K	L	М
2006	N	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
2007	а	b	С	d	е	f	g	h	i	j	k	m
2008	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_{DC}	0	V
RF Power (in BW)	Р	20 max.	dBm
ESD Voltage (HB)	V_{ESD}	150	V

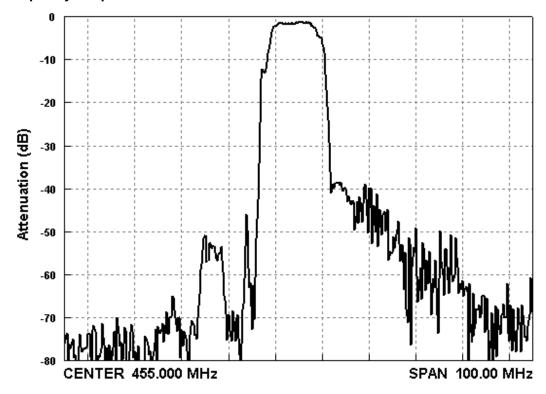


Electrical Characteristics

Item		Minimum	Typical	Maximum	Unit
Center Frequency	$f_{\mathbb{C}}$	-	455.00	-	MHz
Maximum Insertion Loss in 452.5 MHz-457.5 MHz	IL	-	2.0	2.8	dB
Absolute Attenuation	α				
0.30 350.00 MHz		45	55	-	dB
350.00 445.00 MHz		40	50	-	dB
462.50 467.50 MHz		30	38	-	dB
467.50 1000.0 MHz		35	50	-	dB
1000.0 2000.0 MHz		40	50		dB
VSWR in 452.5 MHz-457.5 MHz		-	2.0	2.5	

[®] RoHS Compliant

Typical Frequency Response



i 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	· /	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 mi (b) Wait 4 hours before measurement	inutes repeated 3 times			

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

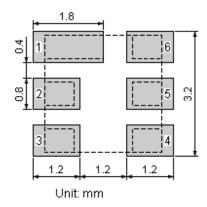
Remarks

- 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

Input 000Ω Single 0000 Balanced 0000 Bolomored 0000 0000 Single 0000 Configuration

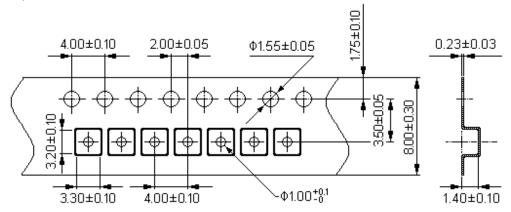
Recommended Land Pattern



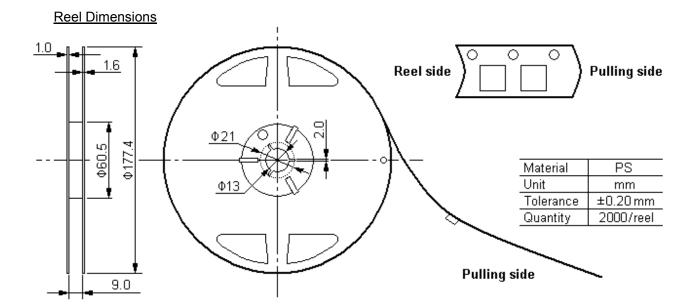


Packing Information

Carrier Tape



Dimensions in mm

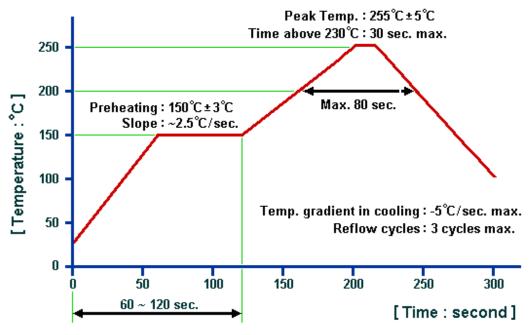


Outer Packing

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				



Recommended Soldering Profile



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- 1. The specifications of this device are subject to change or obsolescence without notice.
- 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