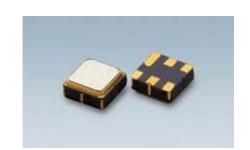


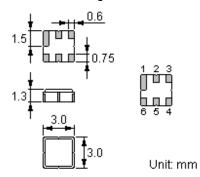
Features

- Low-loss RF filter for CDMA450 Block F(Tx)
- High Rejection
- Single Ended Operation at 50Ω without matching
- Ceramic Package for Surface Mounted Technology (SMT)
- Lead-free Production and RoHS Compliance



Package Dimensions

Ceramic Package: DCC6C



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

"4175": 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	$T_{\rm stg}$	-40 ~ +85	°C
DC Voltage (between any Terminals)	$V_{ m DC}$	0	V
RF Power (in BW)	Р	30max.	dBm
ESD Voltage (HB)	V _{ESD}	250	V

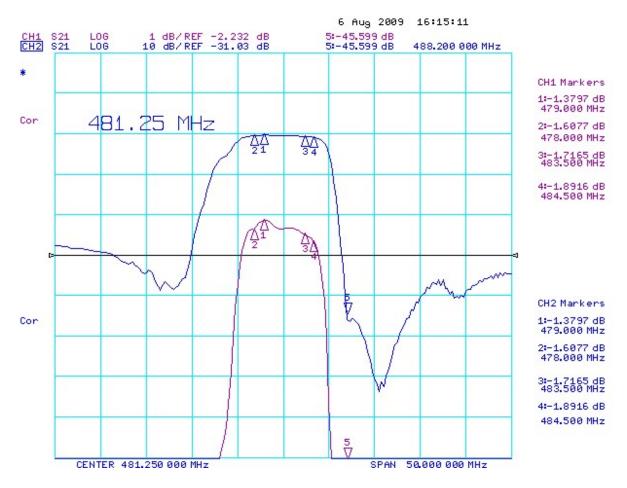


Electrical Characteristics

Item		Minimum	Typical	Maximum	Unit
Center Frequency	f C	-	481.25	-	MHz
Maximum Insertion Loss in 479 .0MHz-483.5 MHz	IL	-	1.8	2.4	dB
Absolute Attenuation	α				
0.300 470.00 MHz		25	28	-	dB
489.00 493.50 MHz		42	45	-	dB
493.50 900.00 MHz		25	30	-	dB
900.00 1500.0 MHz		25	30	-	dB
1000.0 2000.0 MHz		17	25		dB
Amplitude Variation in 479 .0MHz–483.5 MHz			0.8	1.0	dB
Input VSWR in 479 .0MHz–483.5 MHz		-	1.5:1	2.0:1	
Output VSWR in 479 .0MHz-483.5 MHz		-	1.5:1	2.0:1	
Group delay ripple 479.0 MHz–483.5 MHz			40	100	ns
Source / Load Impedance (single ended)			50	•	Ω

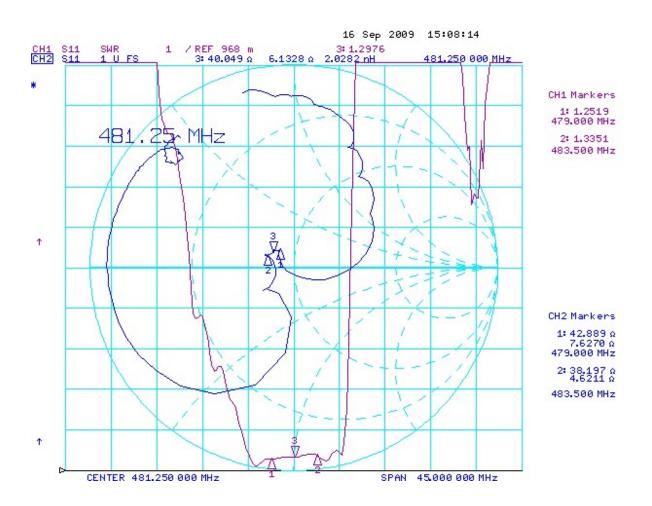
[®] RoHS Compliant

Typical Frequency Response

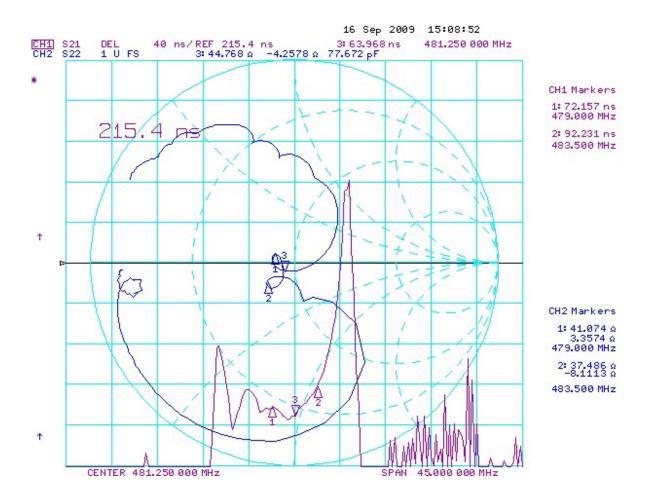


Electrostatic Sensitive Device











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	()	o) Amplitude: 1.5 mm d) Duration: 2 hours			
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (I) (c) Wait 4 hours before measurement	b) Duration: 96 hours			
4	Climatic sequence	()	r 24 hours, 90~95% R.H. r 24 hours, 90~95% R.H.			
5	High temperature exposure	(a) Temperature: 70°C (I (c) Wait 4 hours before measurement	o) Duration: 250 hours			
6	Thermal impact	(a) +70°C for 30 minutes ⇒ -25°C for 30 minute) Wait 4 hours before measurement	utes repeated 3 times			

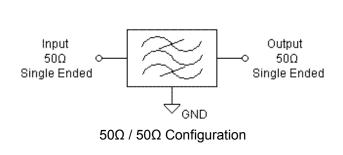
Requirements: The SAW filer shall remain within the electrical specifications after tests.

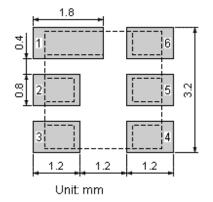
Remarks

- 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

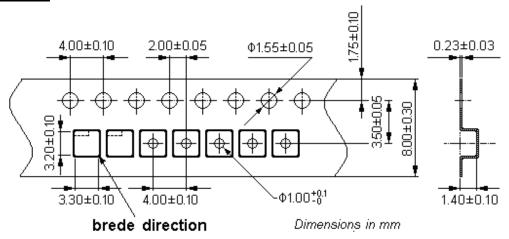


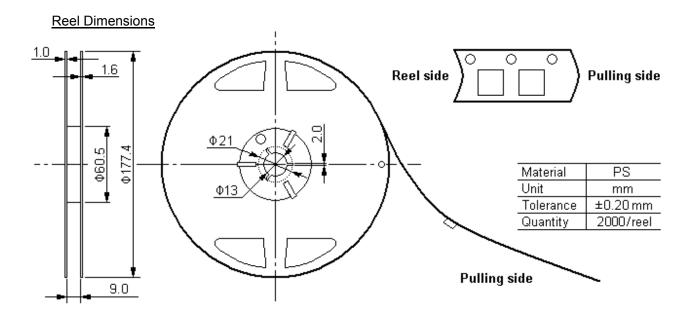




Packing Information

Carrier Tape





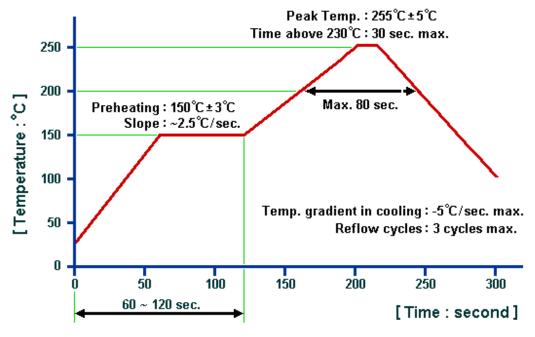
Outer Packing

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