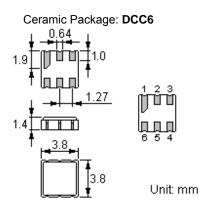
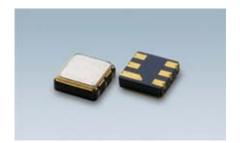


Features

- Low-loss RF filter for CDMA450 Block L
- 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

					Тс	op View,	Laser N	/larking				
NDF*		"ND": Manufacturer's mark							" F ":	SAW fil	ter	
+ ⁴¹⁸⁶			"418	36 ": F	Part number				"""	Termina	al 1	
1 "*":				·": L	ot numb	per (The	code sh	nown be	low vari	es in a 4	1-year cy	/cle)
Code	1	2	3	4	5	6	7	8	9	10	11	12

Coue	1	2	5	-	5	0	'	0	3	10		12	
2005	А	В	С	D	Е	F	G	Н	J	K	L	М	
2006	Ν	Р	Q	R	S	Т	U	V	W	Х	Y	Z	
2007	а	b	С	d	е	f	g	h	i	j	k	m	
2008	n	р	q	r	S	t	u	v	w	х	у	z	

Maximum Ratings

Rating		Value	Unit
Operating Temperature Range	TA	-40 ~ +85	°C
Storage Temperature Range	T_{stg}	-40 ~ +85	°C
DC Voltage (between any Terminals)	V _{DC}	0	V
RF Power (in <i>BW</i>)	Р	26max.	dBm
ESD Voltage (HB)	V_{ESD}	150	V

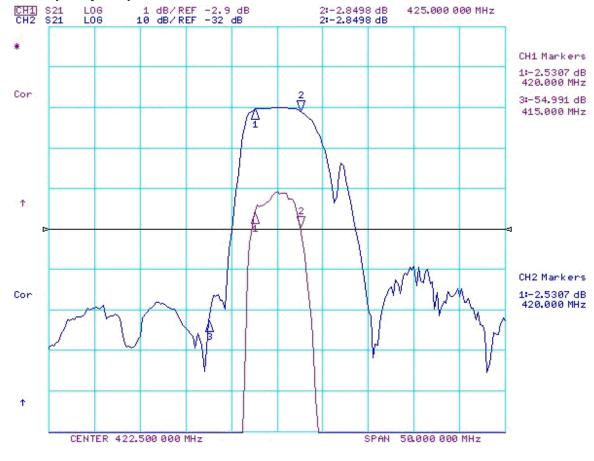


Electrical Characteristics (-30°C ~ +85°C)

ltem		Minimum	Typical	Maximum	Unit
Center Frequency	f _C	-	422.50	-	MHz
Maximum Insertion Loss in 420.0 ~ 425.0 MHz	IL	-	2.6	3.5	dB
Absolute Attenuation	α				
0.30 410.00 MHz		40	45	-	dB
410.00 415.00 MHz		40	48	-	dB
442.50 465.00 MHz		35	45	-	dB
465.00 1000.0 MHz		40	45	-	dB
1000.0 2000.0 MHz		25	30		dB
Passband Ripple $\Delta \alpha$ 420.0 ~ 425.0 MHz			0.8	2.0	dB
Group Delay Variation 420.0 ~ 425.0 MHz			60	150	ns
Input VSWR in 420.0 ~ 425.0 MHz		-	1.6:1	2.0:1	
Output VSWR in 420.0 ~ 425.0 MHz		-	1.6:1	2.0:1	
Source / Load Impedance (single ended)			50	•	Ω
B Rolle Compliant	\square		0		

🕲 RoHS Compliant

I 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		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 m (b) Wait 4 hours before measurement	inutes repeated 3 times				

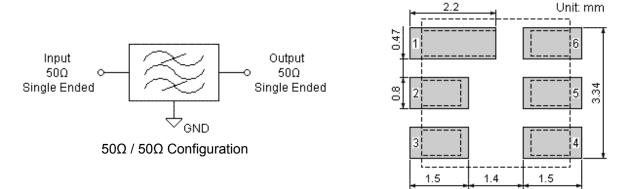
Requirements: The SAW filer shall remain within the electrical specifications after tests.

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

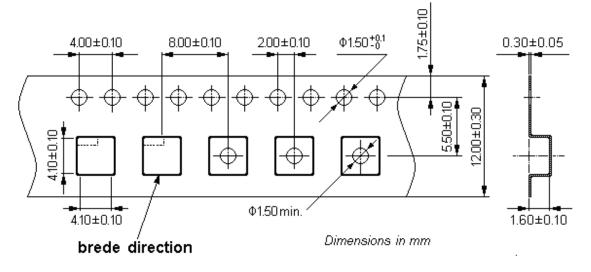
Recommended Land Pattern



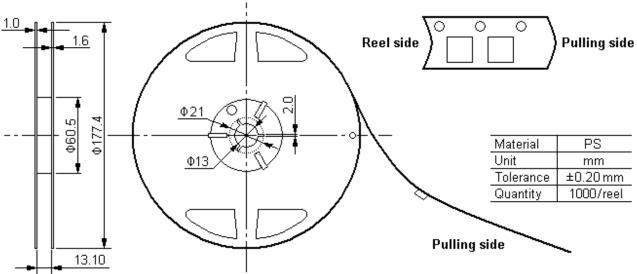


Packing Information

Carrier Tape



Reel Dimensions

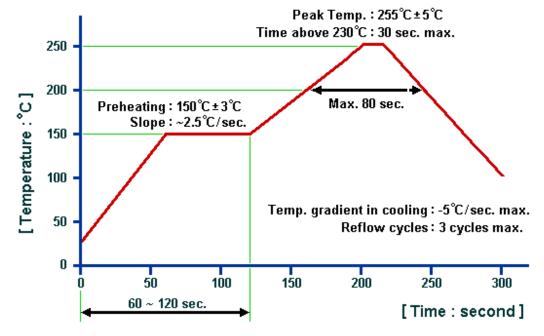


Outer Packing

Туре	Quantity	Dimension	Description	Weight
Carton Box I	5000	190×190×95	anti-static plastic bag & carton box 1 reel / bag	0.85
Carton Box II	10000	190×190×190	5 bags / box (5000 pcs) 10 bags / box (10000 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.
- 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

WINNSKY INTERNATIONAL (H.K.) LIMITED