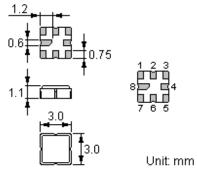


Features

- 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
6	Output
1, 3,7	To Be Grounded
2, 4,8	Case Ground

Marking

	Top View, Laser Marking				
"ND":	Manufacturer's mark	" F ":	SAW filter		
" 5024 ":	Part number				

Code	1	2	3	4	5	6	7	8	9	10	11	12
2009	А	В	С	D	Е	F	G	Н	J	K	L	М
2010	Ν	Р	Q	R	S	Т	U	V	W	Х	Y	Z
2011	а	b	С	d	е	f	g	h	i	j	k	m
2012	n	р	q	r	S	t	u	v	w	х	у	z

Maximum Ratings

NDF 5024

Rating	Value	Unit	
Operating Temperature Range T ₄	4	-40 ~ +85	°C
Storage Temperature Range T _{st}	tg	-40 ~ +85	°C
DC Voltage (between any Terminals) V _D	C	5	V
RF Power (in <i>BW</i>) P	,	10.	dBm

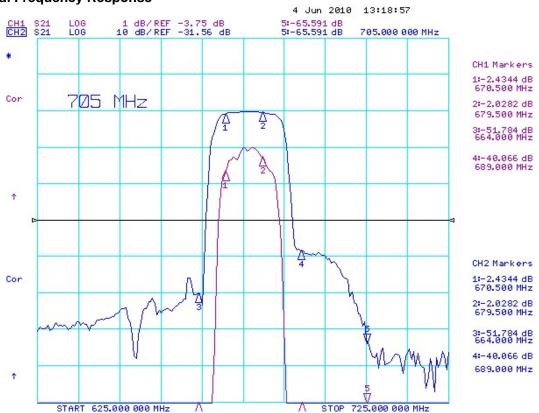


Electrical Characteristics

Item		Minimum	Typical	Maximum	Unit
Center Frequency	f _C	-	675	-	MHz
Maximum Insertion Loss in 670.5MHz–679.5MHz	IL	-	2.4	3.0	dB
Absolute Attenuation	α				
0.3000 664.00 MHz		42	45	-	dB
689.00 705.00 MHz		30	38	-	dB
705.50 850.00 MHz		45	55	-	dB
850.00 1500.00 MHz		40	45	-	dB
Amplitude Variation in 670.5MHz–679.5MHz			0.6	1.0	dB
Input VSWR in 670.5MHz–679.5MHz		-	1.7:1	2.0:1	
Output VSWR in 670.5MHz–679.5MHz z		-	1.7:1	2.0:1	
Group delay ripple 670.5MHz–679.5MHz			60	90	ns
Source / Load Impedance (single ended)		50		Ω	

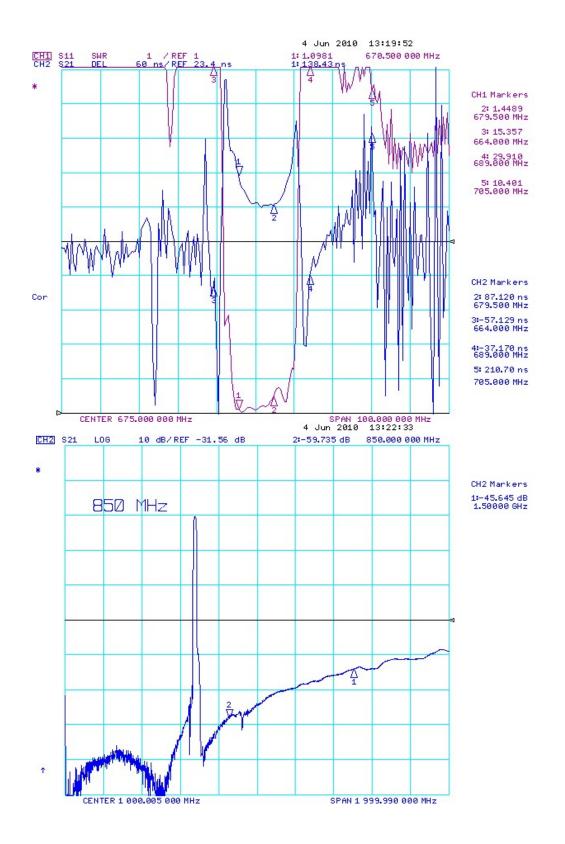
B RoHS Compliant

① Electrostatic Sensitive Device



Typical Frequency Response

SAW Filter





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			

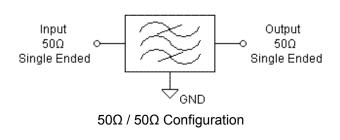
Requirements: The SAW filer shall remain within the electrical specifications after tests.

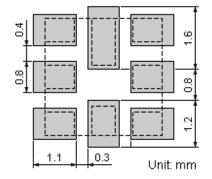
Remarks

- 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

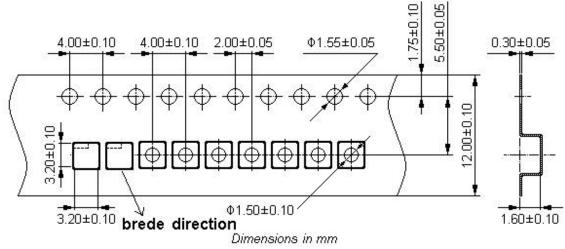




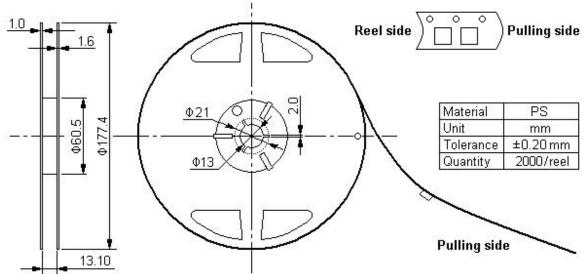


Packing Information

Carrier Tape



Reel Dimensions

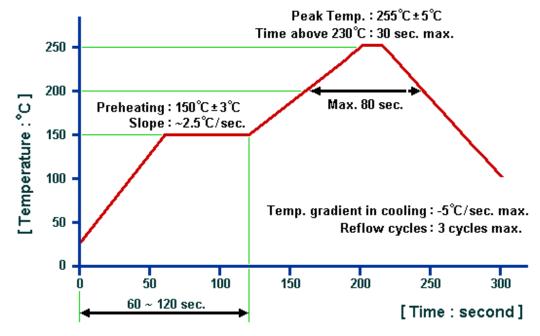


Outer Packing

Туре	Quantity	Dimension	Description	Weight
Carton Box I	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