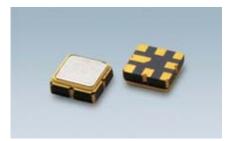
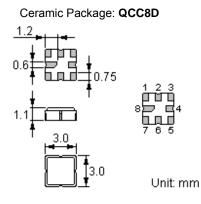


Features

- Low-loss RF filter for digital television
- Ceramic Package for Surface Mounted Technology (SMT)
- Lead-free Production and RoHS Compliance



Package Dimensions



Pin Configuration

1, 2	Input
5, 6	Output
3, 7	To Be Grounded
4, 8	Case Ground

Marking

NDF* 9277*

Top View, Laser Marking

 "ND":
 Manufacturer's mark
 "F":

 "9277":
 Part number
 "• ":

" • ": Terminal 1

SAW filter

"*": 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	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
2013	Α	В	С	D	Е	F	G	Н	J	K	L	М
2014	Ν	Р	Q	R	S	Т	U	V	W	Х	Y	Z

Maximum Ratings

Rating		Value	Unit
Source Power	Р	0	dBm
DC Voltage	V _{DC}	6	V
Operating Temperature Range	TA	-40 ~ +85	°C
Storage Temperature Range	$T_{\rm stg}$	-40 ~ +85	°C



Electrical Characteristics

Operating temperature range: T = Terminating source impedance (difference): Terminating load impedance (difference):

T = −40 °C +85 °C

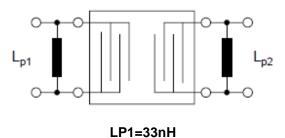
 Z_{s} = 150 Ω and matching network Z_{L} = 150 Ω and matching network

Characteristic		Min.	Тур.	Max.	Unit
Nominal frequency	f _C		974.00	—	MHz
Maximum insertion attenuation α _{max} 954.00 994.00MHz	IL		4.0	4.5	dB
Amplitude ripple (p-p) 954.00 994.00MHz	Δα	_	1.3	1.8	dB
Pass bandwidth at -1.5dB	Δα	40	57.0	-	MHz
Group delay ripple 954.00 994.00MHz			19.0	26.0	ns
Deviation from linear phase (rms) in any 30 MHz band 954.00 994.00MHz		11	13		dB
Relative attenuation (relative to αmax) 50.00 891.94MHz 1056.06 1100.0 MHz	α	45.0 44.0	56.0 49.0		dB dB dB
2000~6000 MHz		15.0			dB

B RoHS Compliant

① Electrostatic Sensitive Device

Matching Network (Input and output balanced)



(Notes: Component values may change depending on board layout.)



Typical Frequency Response



Stability Characteristics

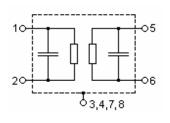
	Test item	Condition of test				
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m				
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (c) Directions: X,Y and Z	(b) Amplitude: 1.5 mm (d) Duration: 2 hours			
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (c) 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 mi (b) Wait 4 hours before measurement	nutes repeated 3 times			

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

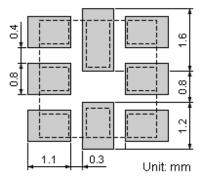
Remarks

- 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.

Equivalent LC Model



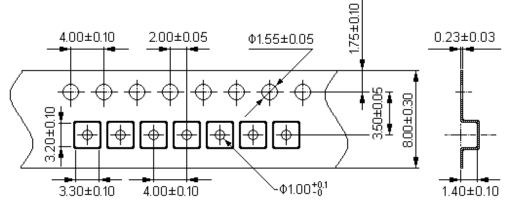
Recommended Land Pattern





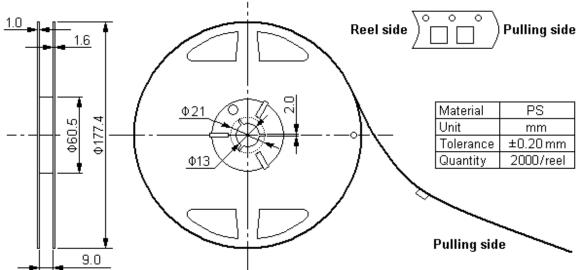
Packing Information

Carrier Tape



Dimensions in mm



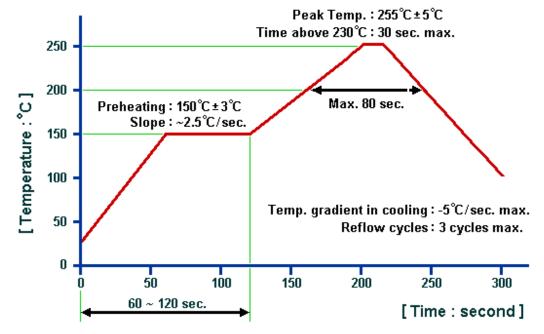


Outer Packing

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		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

WINNSKY INTERNATIONAL (H.K.) LIMITED