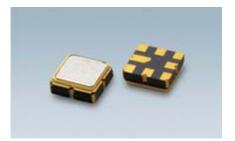
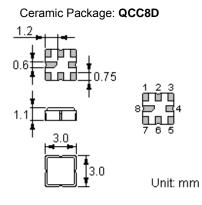


Features

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



Package Dimensions



Pin Configuration

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

Marking

(Тс	op View,	Laser N	Marking				
NDF * 9294			"ND": Manufacturer's mark						" F ":	SAW fil	ter	
			"92	94 ": F	Part number "• ":				"""	Terminal 1		
(<u> </u>			"*": 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

000.0	•	-	•	•	•	•		•	•			•=
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 _{stg}	-50 ~ +95	°C



Electrical Characteristics

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

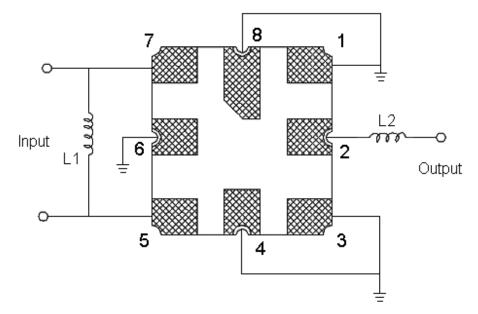
T = -40 °C +85 °C nce): $Z_S = 200 \Omega //15nH$): $Z_L = 50 \Omega$

Characteristic		Min.	Тур.	Max.	Unit
Nominal frequency	f _C	_	2040	—	MHz
Maximum insertion attenuation αmax 2010 2070MHz	IL		3.5	5.0	dB
Amplitude ripple (p-p) 2010 2070MHz	Δα	_	0.7	2.0	dB
Pass bandwidth at -2dB	Δα	60	94	-	MHz
I/O VSWR 2010 2070MHz		_	1.9	2.5	
Relative attenuation (relative to αmax) 50.00 1925MHz 2190 3000 MHz 3000 4000 MHz 4000~6000 MHz	α	42 42 35 15	56 47 41 22		dB dB dB dB

🕲 RoHS Compliant

① Electrostatic Sensitive Device

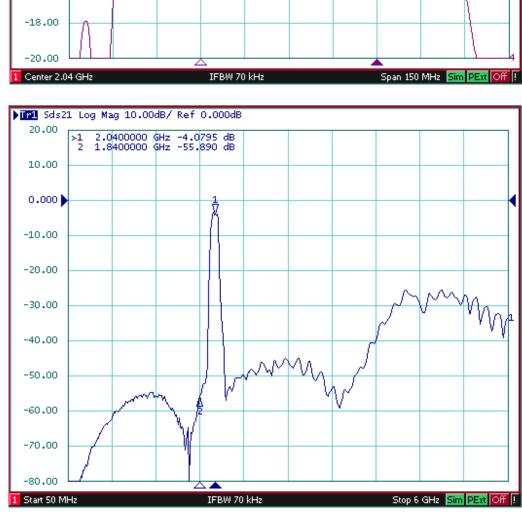
Measurement circuit



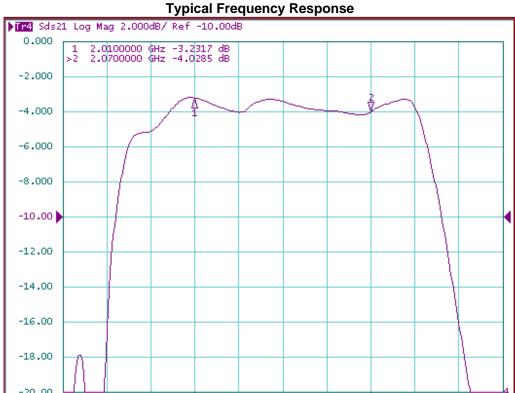
L1=15nH L2=2nH



WINNSKY



SAW Filter







Stability Characteristics

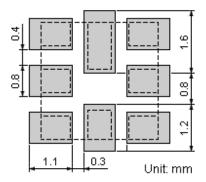
	Test item	Condition of te	est
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m	
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (c) Directions: X,Y and Z	(b) Amplitude: 1.5 mm (d) Duration: 2 hours
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (c) Wait 4 hours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

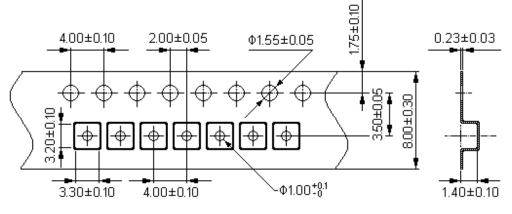
Recommended Land Pattern



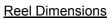


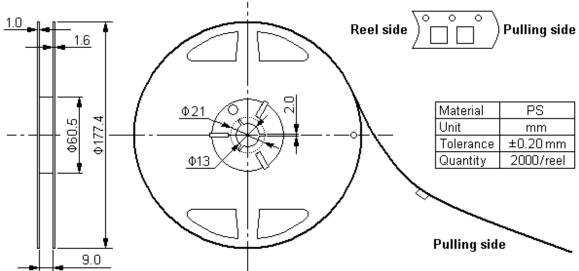
Packing Information

Carrier Tape



Dimensions in mm



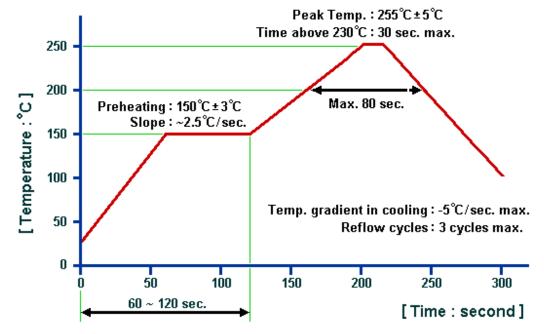


Outer Packing

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