



Features

- Low-loss RF filter for TDD Band43.
- Low amplitude ripple
- No matching network required for operation at 50Ω
- Ceramic package for Surface Mounted Technology (SMT)
- Lead-free production and **RoHS** compliant

Package Dimensions

Ceramic Package: DCC6C



Marking



Top View, Laser Marking							
"ND":	Manufacturer's mark	" F ":	SAW filter				
" 9498 ":	Part number	" .":	Terminal 1				
" * ".	Lot number (The code shown	below va	ries in a 4-year cycle)				

Code	1	2	3	4	5	6	7	8	9	10	11	12
2016	n	р	q	r	S	t	u	v	w	х	у	Z
2017	A	В	С	D	E	F	G	Н	J	K	L	М
2018	N	Р	Q	R	S	Т	U	V	W	Х	Y	Z
2019	а	b	С	d	е	f	g	h	i	j	k	m



Maximum Ratings

Rating		Value	Unit			
		11.5 dBm CW,Ta=115°C,life time>10 years				
		12.5 dBm CW,Ta=105°C,life time>10 years				
		13.5 dBm CW,Ta=95°C,life time>10 years				
		18dBm CW,Ta=115°C,pass band top frequency,test 1000 hours continuously ,electrical characters meet demand;				
	_	19dBm CW , Ta=105°C , pass band top frequency , test 1000				
		20dBm CW .Ta=95°C .pass band top frequency .test 1000 hours				
		continuously ,electrical characters meet demand ;				
		21dBm CW , Ta=115°C , pass band top frequency , test 2 hours continuously ,electrical characters meet demand ;				
		22dBm CW,Ta=105°C,pass band top frequency,test 2 hours continuously ,electrical characters meet demand;				
		23dBm CW , Ta=95°C , pass band top frequency , test 2 hours				
		continuously ,electrical characters meet demand ;				
DC Voltage	V _{DC}	0	V			
Operating Temperature Range	TA	-40 ~ +115	°C			
Storage Temperature Range	T _{stg}	-40 ~ +125	°C			

Electrical Characteristics

	Parameter	Unit	Minimum	Typical	Maximum
(Center frequency	MHz		3700	
				4.7*)	5.0*)
Insertion Loss (3600~3800MHz)				4.8**)	5.0**)
				4.9***)	5.1***)
Pass band Ripple (3600~3800MHz)				2.0	3
Group dela	ay Variation(3600~3800MHz)	ns		5	15
	DC~2550MHz	dB	20	30	
	2550~2690MHz	dB	30	35	
	2690~3000MHz	dB	20	28	
			15*)	25 *)	
		5	13**)	20**)	
Absolute	3000~3400MHz	dB	11***)	18***)	
Attenuation	4000~4050MHz	dB	20	30	
	4050~4200MHz	dB	20	30	
	4200~5000MHz	dB	20	30	
	5000~6000MHz	dB	25	35	
Input/ Output VSWR (3600~3800MHz)				1.7	3
Input/Output Impedance				50	

RoHS Compliant
*) @ -40 °C ~95°C
**) @ 95 °C ~105°C
***) @ 105 °C ~115°C
WINNSKY INTERNATIONAL (H.K.) LIMITED

(i) Electrostatic Sensitive Device



Typical Frequency Response



S11 and S22





Group Delay



Far Side



Stability Characteristics

	Test item	Condition of test
1	Mechanical shock	Y1 plane only 5 pulses, 0.5 ms duration, 1500 g peak acceleration
2	Temperature Humid No Bias	85°C , 85%RH, 1000hours
3	Thermal Shock	-55°C /+125°C,5 min dwell,<1 min transfer time, 1000cycles
4	High Temperature Storage Life	150°C+Preconditioning if Required,1000hrs
5	Human Body Mode ESD	per EIA/JESD22-A114
6	Power Testing	(Maximum Input Power at High Frequency Side of Filter. Ta ≥ Maximum Working Temperature; ≥2Hrs

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)	1.80
		Unit: mm		Unit: kg





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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