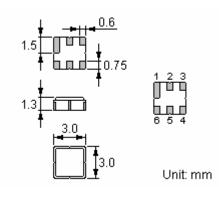


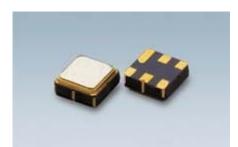
ACTF9188-1962.50-DCC6C: Features

- Low-loss RF filter for WCDMA mobile systems
- 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





0044 (0) 118 979 1238 0044 (0) 118 979 1283

info@actcrystals.com

Tel :

Fax :

email :

Pin Configuration

2	Input
5	Output
1, 3, 4, 6	Ground

Marking

		Top View, Laser Ma	arking				
CTF*	"ACT":	Manufacturer's mark	" F ":	SAW filter			
9188	" 9188 ":	Part number	"""	Terminal 1			
· · · · · ·	"★":	Lot number (The code shown below varies in a 4-year c					

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

Rating		Value	Unit
Input Power Level	Р	10	dBm
DC Voltage	V _{DC}	12	V
Operating Temperature Range	T _A	-40 ~ +85	°C
Storage Temperature Range	T _{stg}	-40 ~ +85	°C

In line with our ongoing policy of product evolvement and improvement; the above specification may subject to change without notice IS 09001:2000 Registered

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Electrical Characteristics

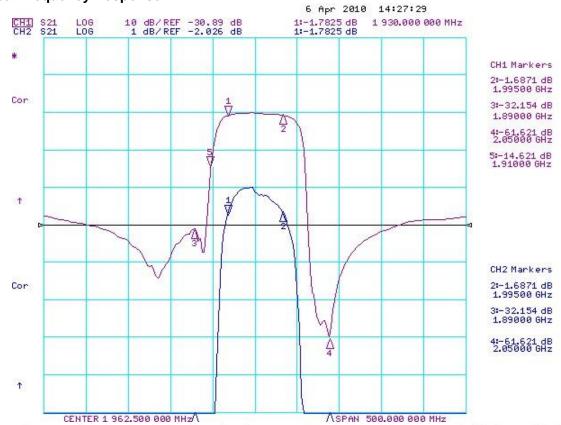
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f _C		1962.50		MHz
Insertion Loss	IL				
1930.00 1995.00 MHz			1.9 *(3.0*)	dB
Group Delay Ripple 1930.00 1995.00 MHz			10	40	ns
Absolute Attenuation	α				
DC 1850.00 MHz		20	26		dB
1850.00 1890.00 MHz		26	32		dB
1890.00 1910.00 MHz		6*)	14		dB
2050.00 2500.00 MHz		25	30		dB
2500.00 3000.00 MHz		25	32		dB
3000.00 6000.00 MHz		30			dB
Amplitude Ripple (p-p) 1930.00 1995.00 MHz	Δα		0.8 *(1.5 *)	dB
1930.00 1995.00 MHz			1.6: 1	2.0: 1 *)	
Output VSWR					
1930.00 1995.00 MHz			1.6: 1	2.0: 1*)	
Input / Output Impedance (Nominal)		50		Ω	

*(: Normal temperature 25℃ *) : -40℃ ~ +85℃

B RoHS Compliant

① Electrostatic Sensitive Device

Typical Frequency Response



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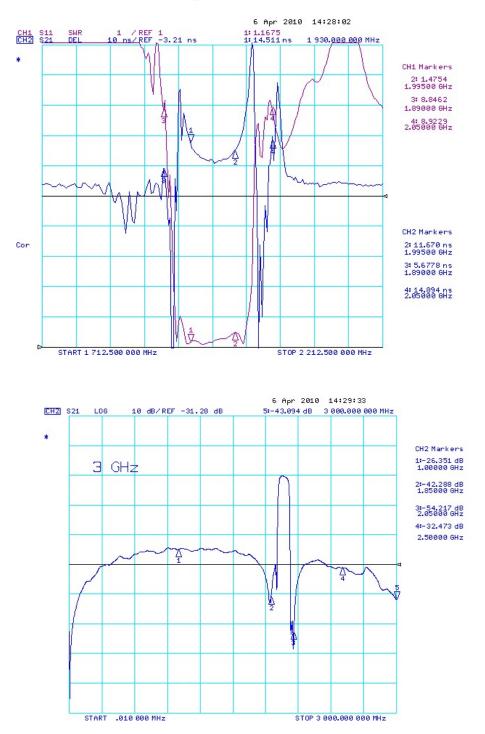
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Stability Characteristics

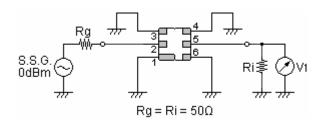
	Test item	Condition of test				
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m				
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (c) Directions: X,Y and Z	(b) Amplitude: 1.5 mm (d) Duration: 2 hours			
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (c)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

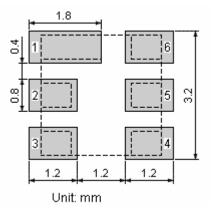
Remarks

- 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



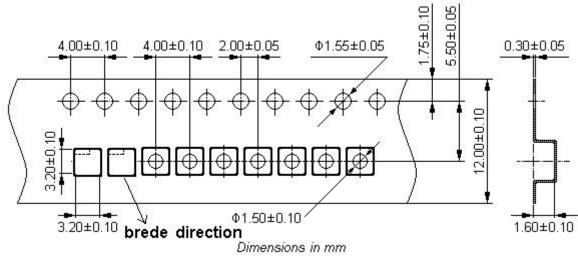
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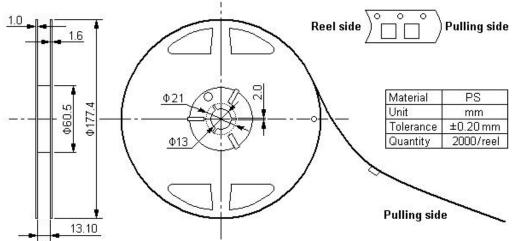


Packing Information

Carrier Tape



Reel Dimensions



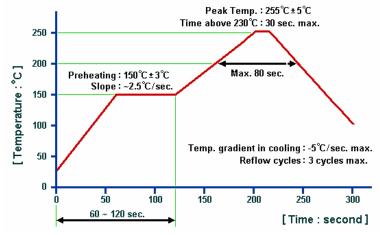
Outer Packing

Туре	Quantity	Dimension	Description	Weight
Carton Box	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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Recommended Soldering Profile



- 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.