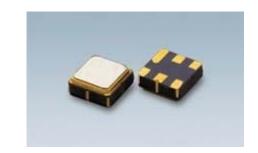


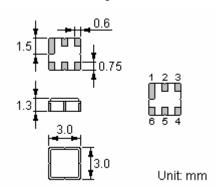
Features: Saw Filter ACTF8310-815-DCC6C

- Low-loss RF filter for 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



Pin Configuration

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

Marking

ACTF*

Top View, Laser Marking

"ACT": Manufacturer's mark "F": SAW filter "8310": Part number ".": Terminal 1

"*": 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
2009	Α	В	С	D	Е	F	G	Н	J	K	L	М
2010	N	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
2011	а	b	С	d	е	f	g	h	i	j	k	m
2012	n	р	q	r	S	t	u	٧	W	Х	у	Z

Maximum Ratings

Rating	Value	Unit	
Input Power Level	P	10	dBm
DC Voltage	V_{DC}	0	V
Operating Temperature Range	T_{A}	-40 ~ +85	°C
Storage Temperature Range	$T_{ m stg}$	-40 ~ +85	°C



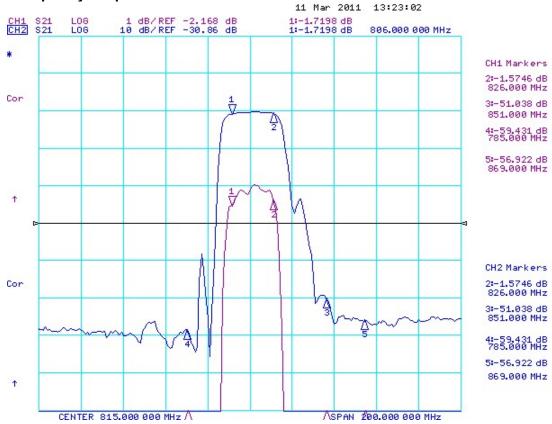
Electrical Characteristics

Item		Minimum	Typical	Maximum	Unit
Center Frequency	f C		815		MHz
Insertion Loss	IL				
805.00 825.00 MHz			1.8	2.4	dB
Group Delay Ripple 805.00 825.00 MHz			50	100	ns
Absolute Attenuation	α				
DC 780.00 MHz		50	55		dB
851.00 869.00 MHz		45	50		dB
869.00 1000.00 MHz		45	50		dB
1000.00 1500.00 MHz		45	55		dB
1500.00 2000.00 MHz		40	45		dB
2000.00 3000.00 MHz		20	30		dB
Amplitude Ripple (p-p) 805.00 825.00 MHz	Δα		0.6	1.2	dB
Intput VSWR 805.00 825.00 MHz			1.5: 1	2.0: 1	
Output VSWR 805.00 825.00 MHz			1.5: 1	2.0: 1	
Input / Output Impedance (Nominal)			50	•	Ω

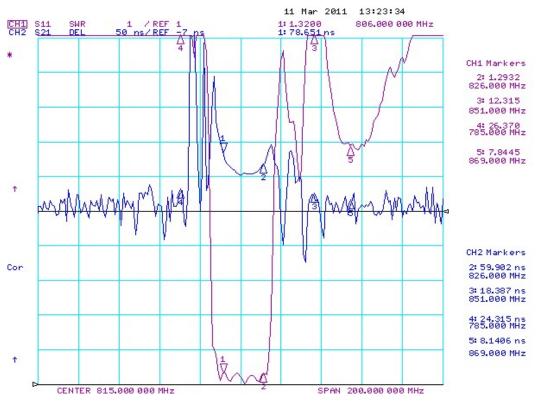
® RoHS Compliant*):

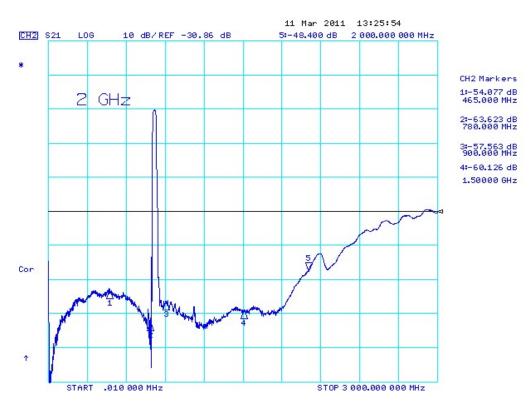
① Electrostatic Sensitive Device

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 ⇒ -25°C for 30 minu	nutes repeated 3 times			

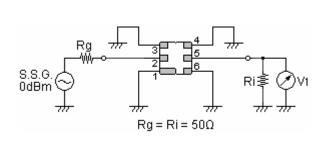
Requirements: The SAW filer shall remain within the electrical specifications after tests.

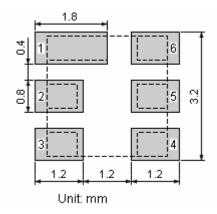
Remarks

- 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.

Test Circuit

Recommended Land Pattern

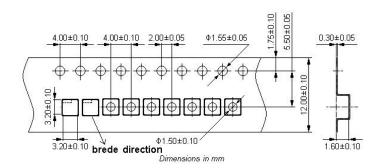


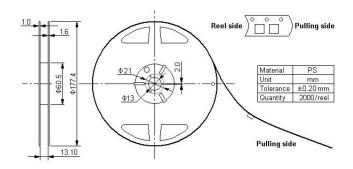




Packing Information

Carrier Tape Reel Dimensions



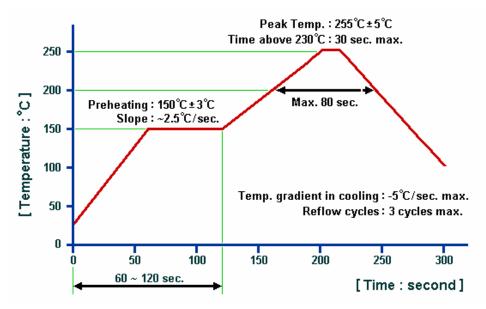


Outer Packing

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

Recommended Soldering Profile



- 1. The specifications of this device are subject to change or obsolescence without notice.
- 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.