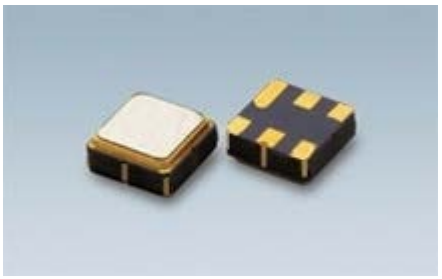
Tel : 0044 (0) 118 979 1238
Fax : 0044 (0) 118 979 1283
email : info@actcrystals.com

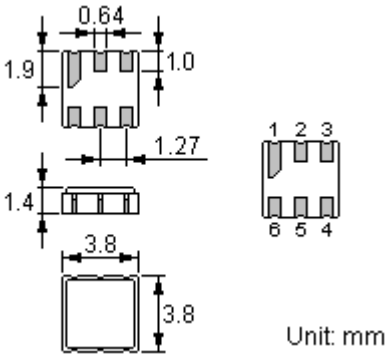
Features: ACTF8035-868.35-DCC6v1.0 SAW Filter



- Low-loss RF filter
- High Rejection
- Single Ended Operation at 50Ω with matching
- Ceramic Package for **S**urface **M**ounted **T**echnology (**SMT**)
- Lead-free Production and **RoHS** Compliance

Package Dimensions

Ceramic Package: **DCC6**



Pin Configuration

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

Marking

Top View, Laser Printing

"**ACT**": Manufacturer's mark "**F**": SAW filter

"**8035**": 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
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	i	j	k	m
2016	n	p	q	r	s	t	u	v	w	x	y	z

Maximum Ratings

Rating		Value	Unit
Operating Temperature Range	T_A	-40 ~ +85	°C
Storage Temperature Range	T_{stg}	-40 ~ +85	°C
DC Voltage (between any Terminals)	V_{DC}	10	V
RF Power (in *BW*)	*P*	10	dBm

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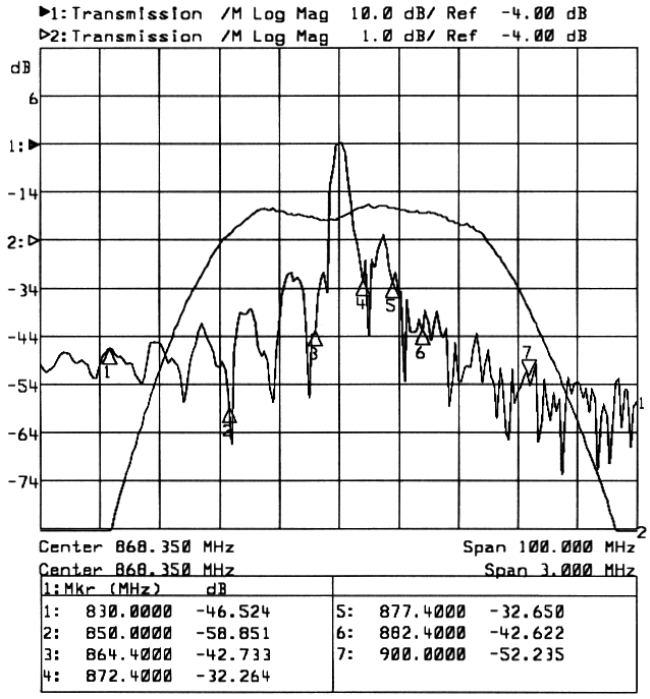
Electrical Characteristics

Characteristic				Minimum	Typical	Maximum	Unit
Center Frequency @25 ℃			f_C		868.350		MHz
Insertion Loss			IL	--	3.5	4.8	dB
3dB Bandwidth			BW_3		1800		kHz
Attenuation: (relative to IL_{min})	10.0 … 700.0 MHz 700.0 … 830.0 MHz 830.0 … 850.0 MHz 850.0 … 864.4 MHz 872.4 … 877.4 MHz 877.4 … 882.4 MHz 882.4 … 900.0 MHz 900.0 … 1000.0 MHz		α_{rel}	50 38 32 22 16 24 28 40	55 43 38 27 20 28 35 45		dB
Temperature	Frequency Temperature Coefficient		FTC		0.032		ppm/℃^{2}
Frequency Aging	Absolute Value during the First Year		$\|fA\|$		10		ppm/yr

RoHS Compliant **Electrostatic Sensitive Device**

Typical Frequency Response



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Stability Characteristics

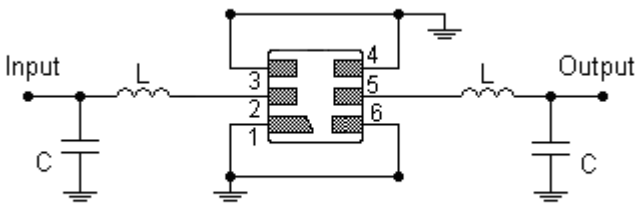
	Test item	Condition of test
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (b) Amplitude: 1.5 mm (c) Directions: X,Y and Z (d) Duration: 2 hours
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (b) Duration: 96 hours (c) Wait 4 hours before measurement
4	Climatic sequence	(a) +70°C for 16 hours (b) +55°C for 24 hours, 90~95% R.H. (c) -25°C for 2 hours (d) +40°C for 24 hours, 90~95% R.H. (e) Wait 4 hours before measurement
5	High temperature exposure	(a) Temperature: 70°C (b) Duration: 250 hours (c) Wait 4 hours before measurement
6	Thermal impact	(a) +70°C for 30 minutes ⇒ -25°C for 30 minutes repeated 3 times (b) Wait 4 hours before measurement

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

Remarks

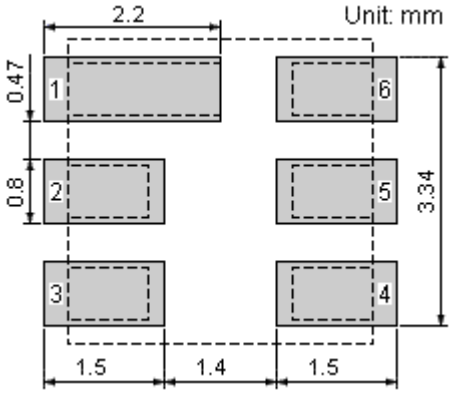
- SAW devices should not be used in any type of fluid such as water, oil, organic solvent, etc.
- Be certain not to apply voltage exceeding the rated voltage of components.
- Do not operate outside the recommended operating temperature range of components.
- Sudden change of temperature shall be avoided, 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



C= 5.6pF
L=2 turns of 0.5mm insulated Copper, 2.0 ID

Recommended Land Pattern



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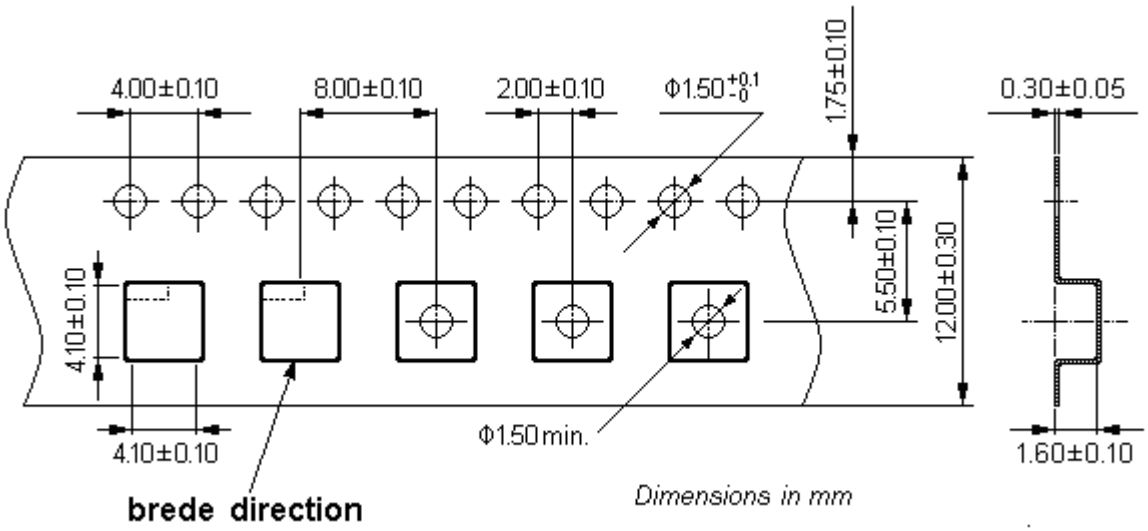
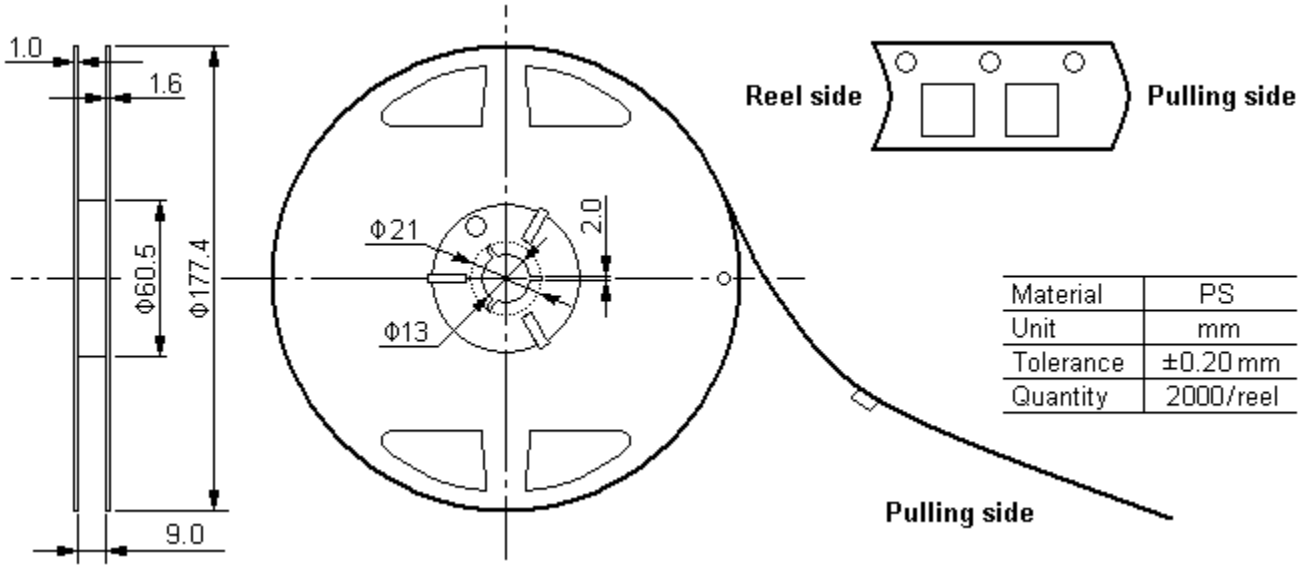
Packing Information

Carrier Tape



Reel Dimensions



Material	PS
Unit	mm
Tolerance	±0.20 mm
Quantity	2000/reel

Outer Packing

Type	Quantity	Dimension	Description	Weight
Carton Box Ⅰ	10000	190×190×95	anti-static plastic bag & carton box 1 reel / bag 5 bags / box (10000 pcs) 10 bags / box (20000 pcs)	0.85
Carton Box Ⅱ	20000	190×190×190		1.70

Unit: mm Unit: kg

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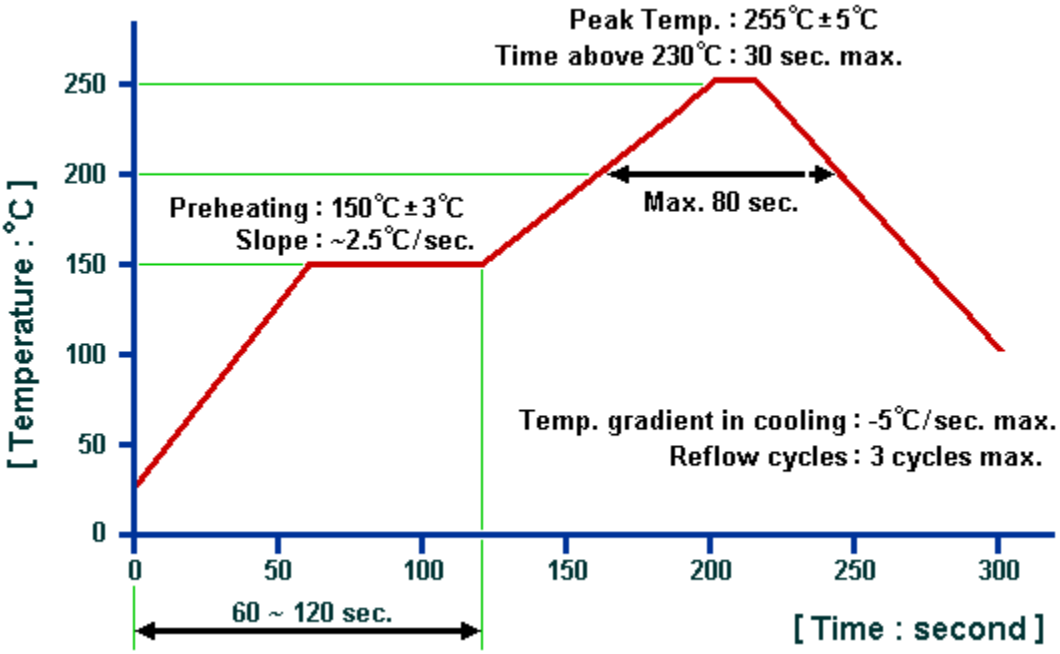
Recommended Soldering Profile



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.