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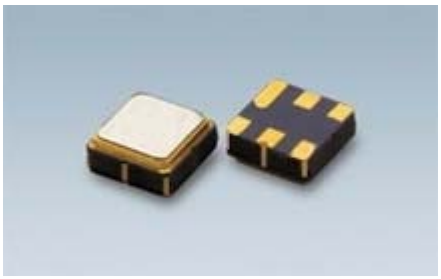
email : info@actcrystals.com

ACTF9205-2345-DCC6C

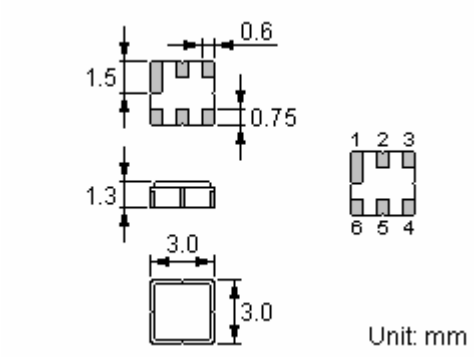
Features

- Low-loss RF filter
- High Rejection
- Single Ended Operation at 50Ω without matching
- Ceramic Package for **S**urface **M**ounted **T**echnology (**SMT**)
- Lead-free Production and **RoHS** Compliance



Package Dimensions

Ceramic Package: **DCC6C**



Pin Configuration

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

Marking

Laser Marking

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}	12	V
RF Power (in *BW*)	*P*	10max.	dBm

Advanced crystal technology

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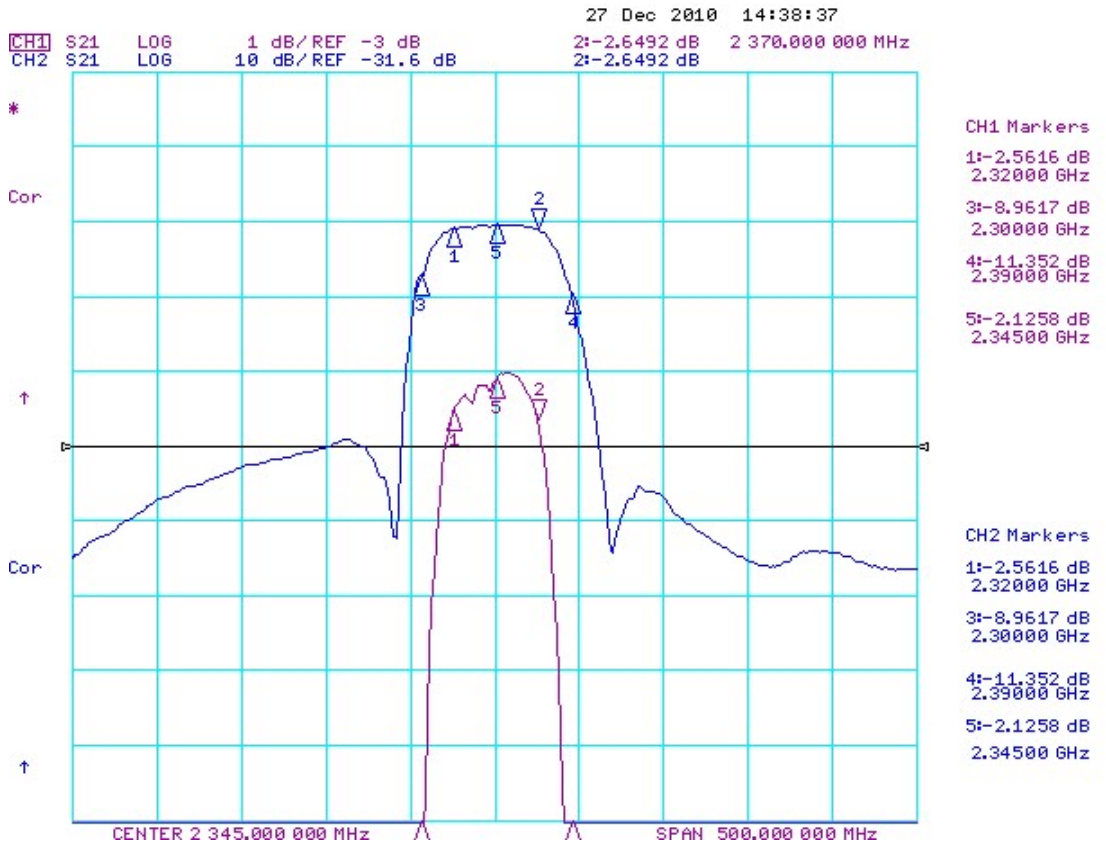
Electrical Characteristics

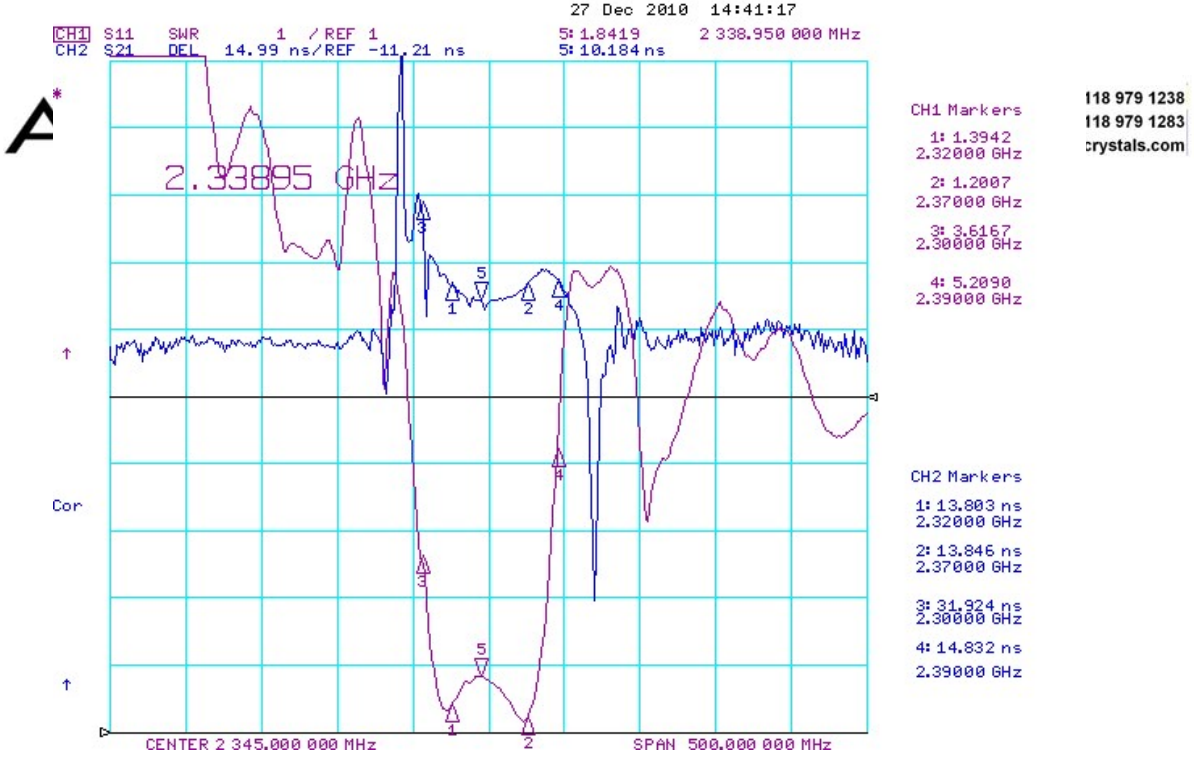
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f_C	-	2345	-	MHz
Maximum Insertion Loss in 2320 MHz–2370MHz	*IL*	-	2.6	3.2	dB
Amplitude Variation in 2320 MHz–2370MHz			0.7	1.2	dB
Absolute Attenuation	*α*				
0.30 … 2170.0MHz		30	33	-	dB
2170.0 … 2190.0 MHz		30	34	-	dB
2190.0 … 2300.0 MHz		4	8.5		
2390.0 … 2460.0 MHz		4	9	-	dB
2460.0 … 2585.0 MHz		30	40	-	dB
2585.0 … 3000.0 MHz		25	35	--	dB
Input VSWR in 2320 MHz–2370MHz		-	1.8:1	2.0:1	
Output VSWR in 2320 MHz–2370MHz		-	1.8:1	2.0:1	
Group delay ripple 2320 MHz–2370MHz			15	30	ns
Source / Load Impedance (single ended)			50		Ω

RoHS Compliant **Electrostatic Sensitive Device**

Typical Frequency Response



In line with our ongoing policy of product evolvement and improvement, the above specification may subject to change without notice



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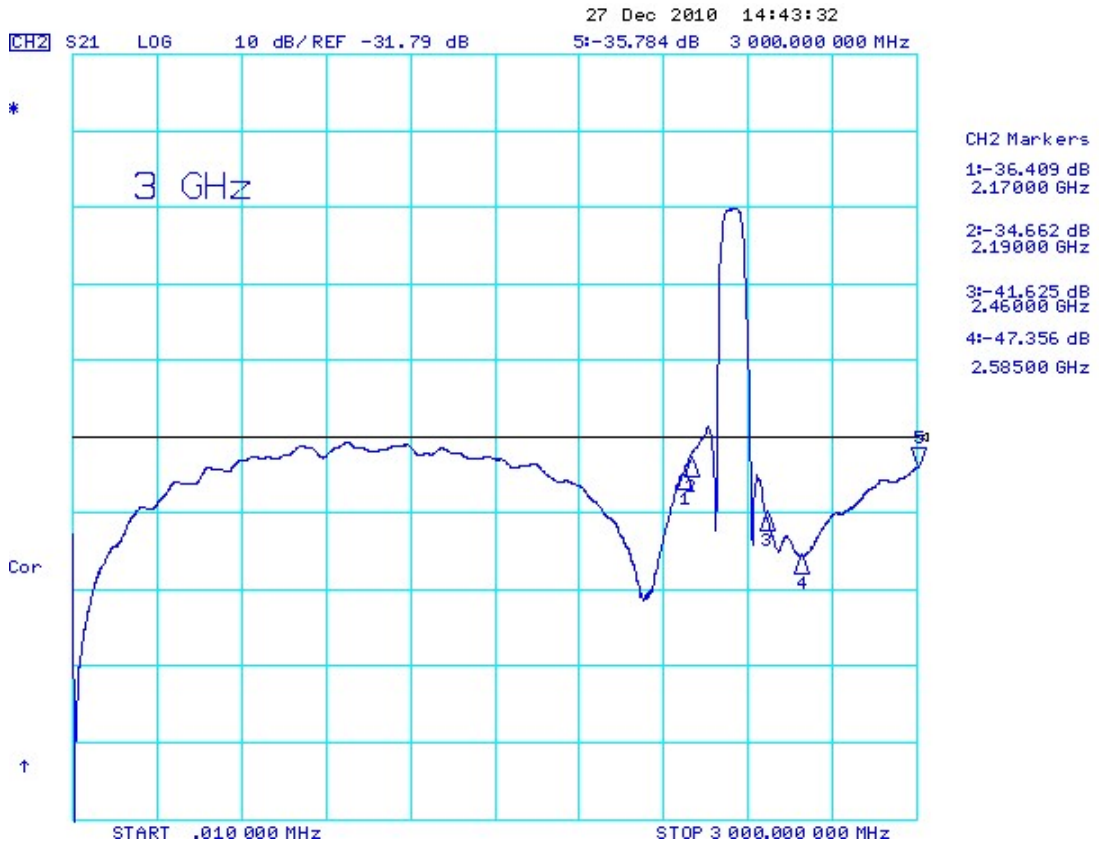

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ISO9001:2000 Registered

For quotations or further information please contact us at:

3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

http://www.actcrystals.com

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Stability Characteristics

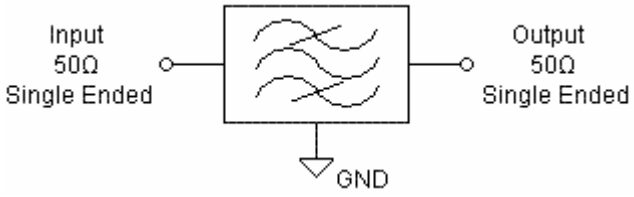
	Test item	Condition of test
1	Mechanical shock	(a) Drops: 3 times on concrete floor (b) Height: 1.0 m
2	Vibration resistance	(a) Frequency of vibration: 10~55Hz (b) Amplitude: 1.5 mm (c) Directions: X,Y and Z (d) Duration: 2 hours
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H. (b) Duration: 96 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

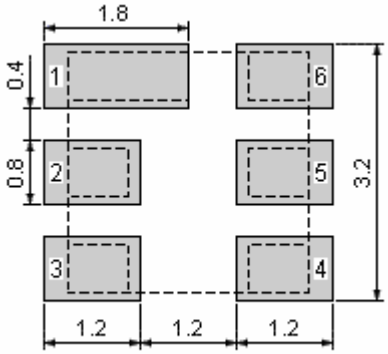
- SAW devices should not be used in any type of fluid such as water, oil, organic solvent, etc.
- Be certain not to apply voltage exceeding the rated voltage of components.
- Do not operate outside the recommended operating temperature range of components.
- Sudden change of temperature shall be avoided,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



50Ω / 50Ω Configuration

Recommended Land Pattern



Unit: mm

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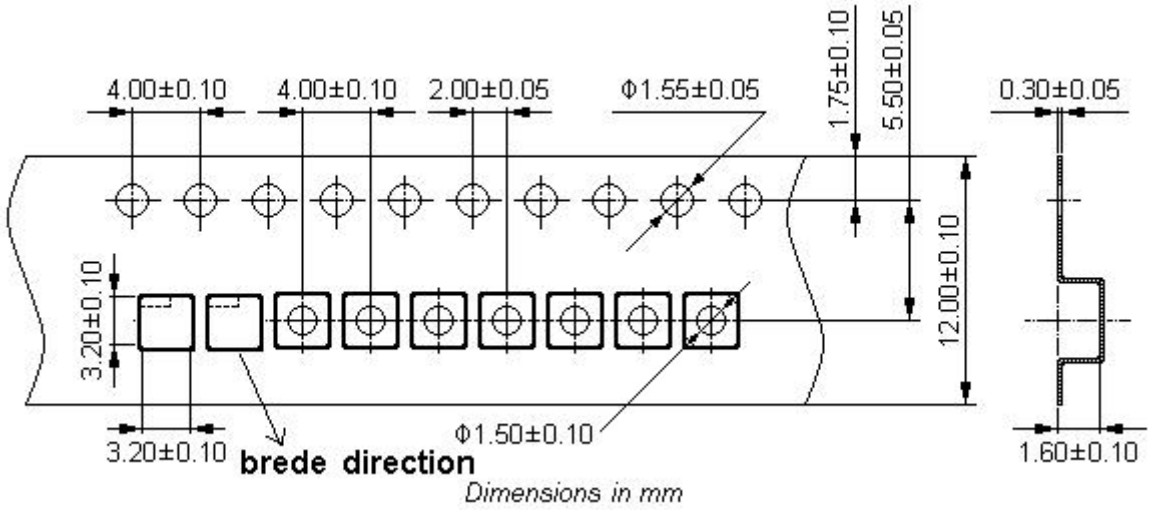
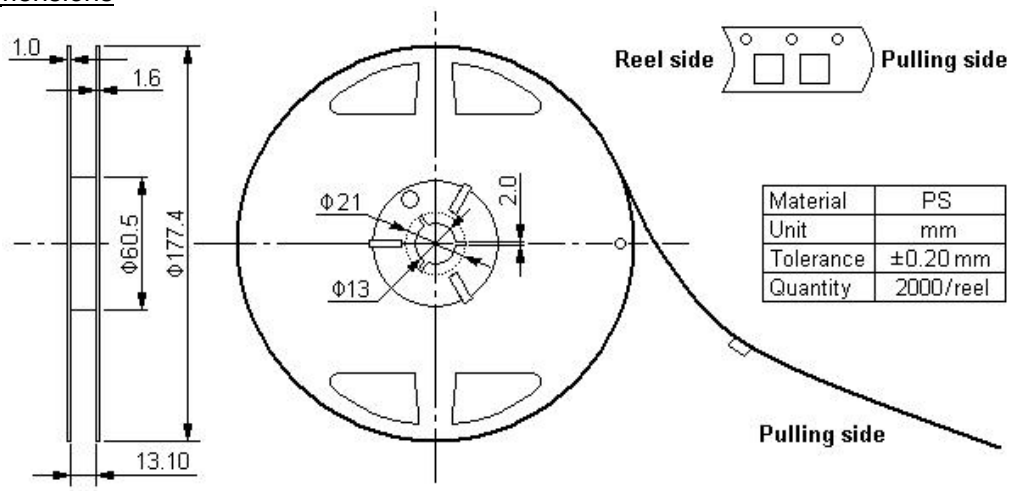
Packing Information

Carrier Tape



Dimensions in mm

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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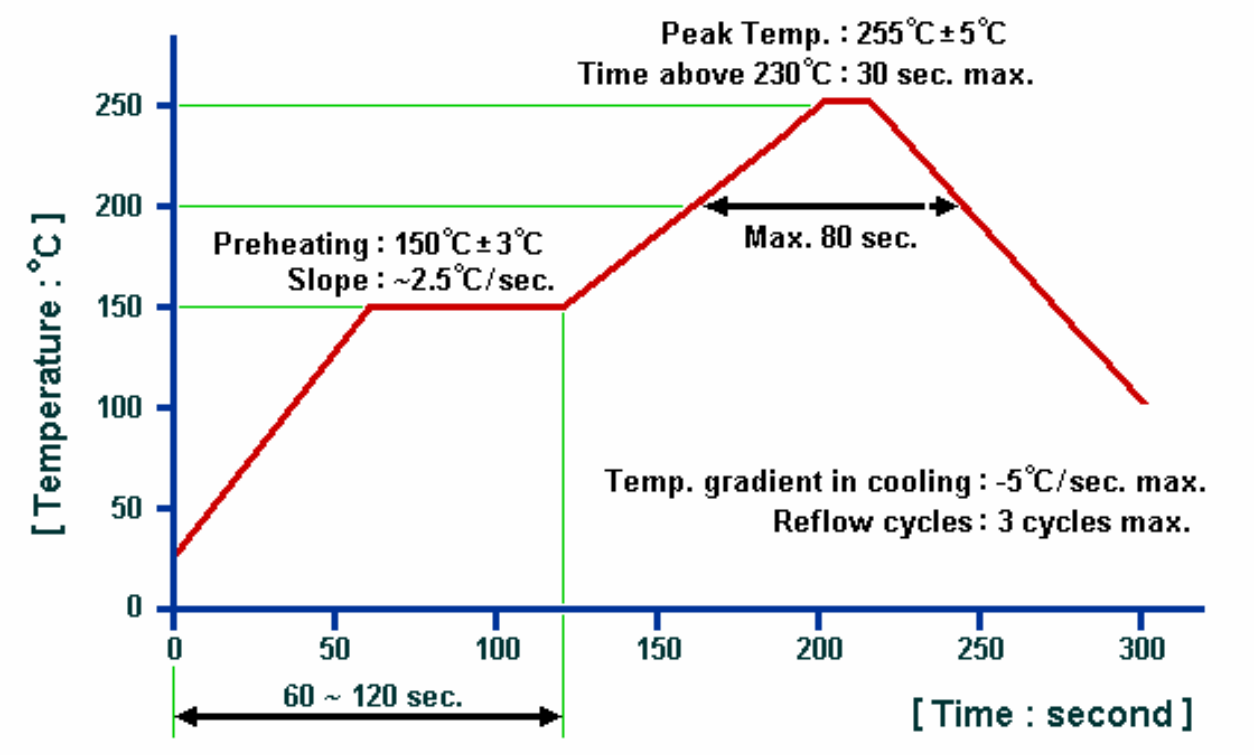
Recommended Soldering Profile



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.