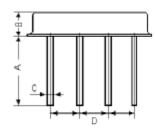


Tel: +44 118 979 1238 Fax: +44 118 979 1283 Email: info@actcrystals.com

The ACTR2/3N/55.24/61.24/SF712 is a true one-port surface-acoustic-wave (SAW) resonator in a low-profile SF712 case intended for the US channel RF modulator. ( NTSC2/3 )

### 1.Package Dimension (SF712)



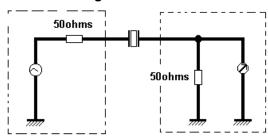


#### 2.

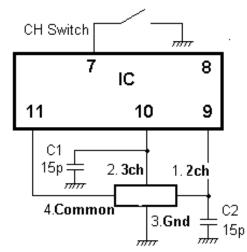
Pins	Configuration	
1	2CH	
2	3CH	
3	Case Ground	
4	Common	

Sign	Data (unit: mm)	Sign	Data (unit: mm)	
Α	5.0/8.0	Е	12.0	
В	3.5	F	7.2	
С	0.5	G	2.0	
D	2.54			

### 3 Measuring Circuit for Resonant Loss



#### **4.Typical Application Circuit**



In keeping with our ongoing policy of product evolvement and improvement, the above specification is subject to change without notice.

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For quotations or further information please contact us at:

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

<a href="http://www.actcrystals.com">http://www.actcrystals.com</a>

Date : SEPT 04

Issue: 1 C1



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#### 5.Performance

# 5-1.Electrical Characteristics Reference temperature shall be 25±2°C

Item		Specification	Remarks	
Resonant Frequency	2ch	55.24±0.08MHz	Measured by HP8711A	
	3ch	61.24±0.08MHz		
Resonator Loss	2ch	3.8 dB Typical		
	3ch	5.0 dB Max		
Parallel Capacitance	2ch	45.10 pF	Measured by LCR Meter HP4275A	
	3ch	4.5±1.0 pF		
Temp Coef. for Frequency		±8 ppm/°C Max	-10°C to +60°C	

## 5-2.Maximum Rating

Item	Terminals to Measure	Maximum rating	Remarks
DC Voltage	2ch – Common 3ch – Common	10V 10V	
Pulse Impressing	Between each terminal	10V	1/60 sec. Max
AC Voltage	Between each terminal	10Vp-p	Commercial Frequency
Operation Temp.		-10°C to +60°C	
Storage Temp.		-40°C to +80°C	
Level 2ch- common 3ch- common		0.2mW (Posc=I²Re)	I: Oscillation Current Re: Oscillation Imp

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5 - 3 Solderability

Solderability

Dipping terminals into Methanol (JIS-K-501) of rosin(JIS-K-5902) Then, into molten solder at 230±5°C for 3±0.5°C seconds

More than 95% of the terminal surface should be covered in smooth solder

Issue: 1 C1

Date: SEPT 04

## **CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!**

- 1. The centre frequency,  $f_C$ , is measured at the minimum IL point with the resonator in the 50  $\Omega$  test system.
- 2. Unless noted otherwise, case temperature  $T_C = +25^{\circ}C \pm 2^{\circ}C$ .
- Frequency aging is the change in f<sub>C</sub> with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically, aging is greatest the first year after manufacture, decreasing in subsequent years.
- 4. Derived mathematically from one or more of the following directly measured parameters: f<sub>C</sub>, IL, 3 dB bandwidth, f<sub>C</sub> versus T<sub>C</sub>, and C<sub>0</sub>.
- 5. The specifications of this device are subject to change or obsolescence without notice.
- 6. Typically, equipment utilizing this device requires emissions testing and government approval, which is the responsibility of the equipment manufacturer.
- 7. 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.

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