

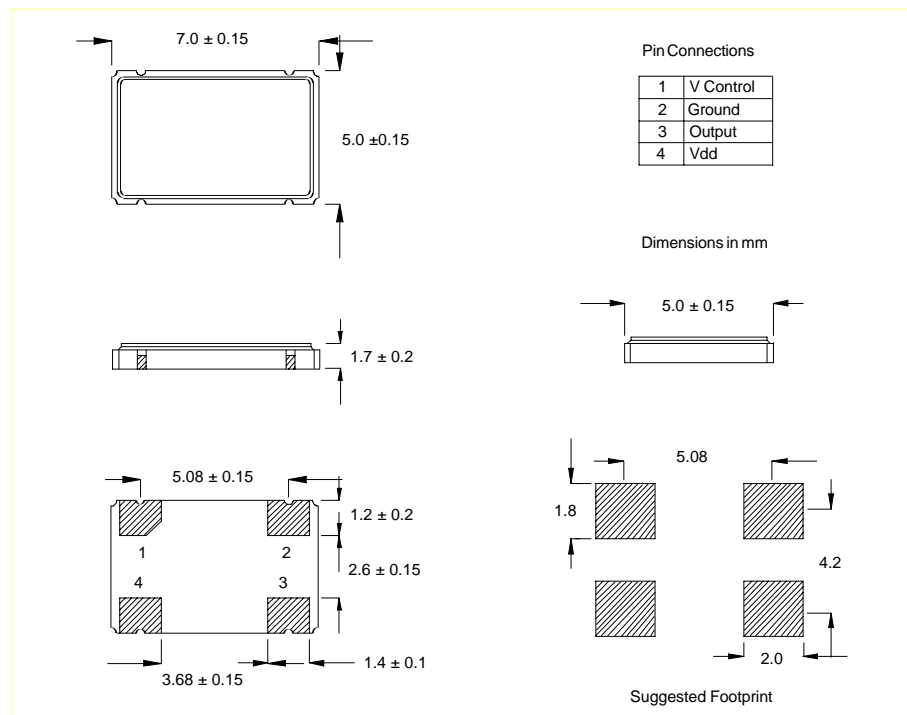
## ACT8CSV- 4

The **ACT8CSV-4** is a family of 4-pad miniature surface mount Voltage Controlled Crystal Oscillators (VCXO) housed in a 7 x 5 mm ceramic package with a metal lid. Only 1.7mm high it is ideal for high density automatic assembly printed circuit boards. These devices can be tuned between  $\pm 50\text{ppm}$  &  $\pm 100\text{ppm}$  from the nominal frequency by varying the voltage on pin 1.

**Applications** include PLL circuits, Cellular/PCS Telephony, Set Top Boxes, MP3 Players, Audio/Video, Video Game Consoles, HDTV sets, SATCOM, GPS Receivers and so on.....



Parameter	Symbol	Specification	Condition
Supply Voltage	Vdd	3.3V <sub>DC</sub> $\pm 5\%$ 5.0V <sub>DC</sub> $\pm 5\%$ max	
Frequency Range	f <sub>o</sub>	1.5 ~ 80 MHz	
Frequency Stability	$\Delta f/f_0$	$\pm 25\text{ppm} \sim 100\text{ppm}$	Please specify
Temp Operating Range	T <sub>opr</sub>	0 to +70°C (std) & -40 ~ +85°C	Please specify
Storage Temp Range	T <sub>stg</sub>	-55 to 125°C	
Supply Current	I <sub>op</sub>	10 ~ 25mA             15 ~ 35mA	Frequency dependant
Duty Cycle	T <sub>w/t</sub>	40/60% (std) & 45/55%	Please specify
Rise & Fall Time	T <sub>r/Tf</sub>	10nS max	
Output Logic		TTL / HCMOS	
Output Load	N/CL	10TTL / 15pF HCMOS	
Output Voltage	VOL	0.4V <sub>DC</sub> max (TTL), 10% V <sub>DD</sub> min (HCMOS)	
	VOH	2.4V <sub>DC</sub> max (TTL), 90% V <sub>DD</sub> min (HCMOS)	
Voltage Control	V <sub>c</sub>	1.65V <sub>DC</sub> $\pm 1.65\text{V}$        2.5V <sub>DC</sub> $\pm 2.0\text{V}$	
Pulling Range	$\Delta f_c$	$\pm 50 \sim \pm 100\text{ppm}$	
Start Up Time	T <sub>osc</sub>	10mS max	
Aging	F <sub>a</sub>	$\pm 5\text{ppm} / \text{year max}$	@25°C



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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  
 www.advancedcrystaltechnology.com

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