

ACT9200WC The ACT9200 family is a miniature, low profile SMD package, with a ceramic base utilising a seam welded metal lid for high reliability and better long-term stability. The

metal lid is grounded through the package to assist with EMI emission reductions. This 7x5mm device is available as the ACT9200 in both 3V3 and 5V0. 1V8 and 2V5 versions are available as ACT9200L (See ACT9200L data sheet). Taped and reeled packaging (1k reels) and loose quantities are available for purchase, to suit high and low volume production.

(The ACT9200WC is the 32.768kHz version of the ACT9200 family.)

Compatible with Eu Directive 2002/EC - RoHS

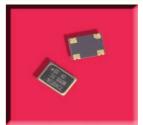
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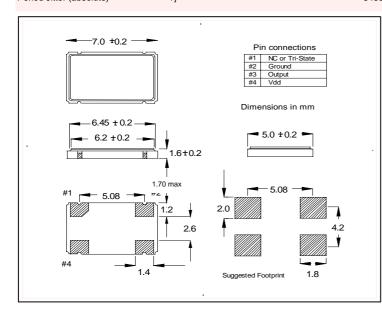
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SPECIFICATION

Parameter	Symb.	Specification		Condition
Supply Voltage	VDD	3.3VDC ± 10%		
Frequency Range	fo	32.768kHz		
Frequency Stability	Δf/fo	±100ppm		
Temp Operating Range	Topr	-20 ~ +70°C (-40~85 °C Custom Option)		
Temp Storage Range	Tstg	-55 to +125°C		
Supply Current (max)	lop	2.0mA max		
Duty Cycle	Tw/t	45/55%		
Output Level '0'	VOL	0.4VDC max (TTL)	10% VDD max (HCMOS)	
Output Level '1'	VOH	2.4VDC min (TTL)	90% VDD min (HCMOS)	
Rise & Fall Time (max)	TrTf	100nS max		
Output Load	N/CL	10TTL / 15pF		
Start-up Time	Tosc	10mS max		
Tri-state Input Voltage		No Connection	Enable output	
		VIH : \geq 90% of V _{DD}	Enable output	
		VIL : \leq 10% of V _{DD}	Disable output : High	Impedance
Reflow		240 Deg C for 10sec max		
Aging	Fa	±3ppm p / year @ 25 Deg C @25Deg C		@25Deg C
Period Jitter (absolute)	Tj	3430pS max		



APPLICATIONS

- Microprocessor clock
- PDA / notebook
- Wireless applications
- Audio
- Gigabit ethernet
- Fibre channel
- Instrumentation

Issue: 4 SKr Date: 15/02/05

NOTE1: To reduce HF power supply noise, an external bypass capacitor of 0.01µF close to ground and Vdd is recommended.

Pad surface

Material Au

Please note that all parameters can not necessarily be specified in the same device

Customer to Specify: Frequency Stability, Operating Temperature Range, Output Type, Output enable, Voltage, Duty Cycle

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

ISO9001: 2000 Registered

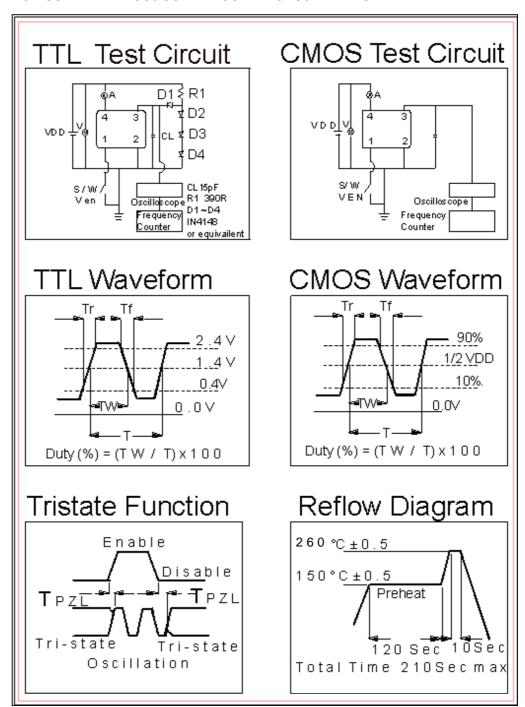
For quotations or further information please contact us at: 3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK

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ACT9200WC CIRCUIT DRAWINGS / SOLDER CONDITIONS /WAVE FORM



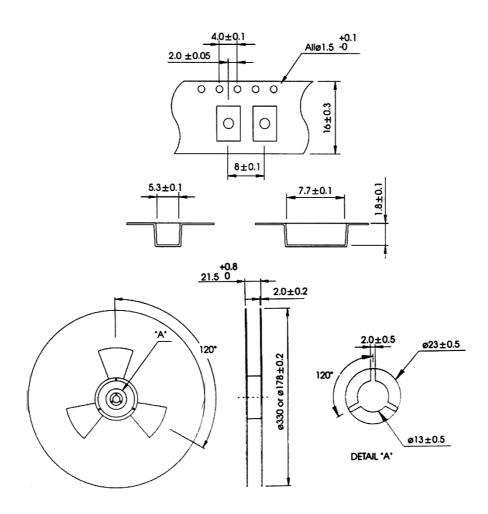
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ACT9200WC CIRCUIT DRAWINGS / SOLDER CONDITIONS /WAVE FORM

(Reels of 1000pcs standard)



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