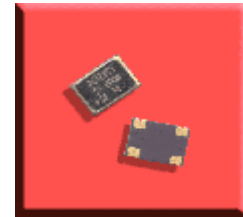


Order code	Manufacturer code	Description
90-2042	n/a	10.00MHZ ACT9200 SMD (RC)
90-2044	n/a	12.00MHZ ACT9200 SMD (RC)
90-1278	RV12500BBCHJPL-PF	OSCILLATOR 125.00MHZ ACT9200 SMD 7X5 (RC)
90-2036	n/a	3.6864MHZ ACT9200 SMD (RC)
90-2038	n/a	4.00MHZ ACT9200 SMD (RC)
90-2040	n/a	8.00MHZ ACT9200 SMD
90-2056	n/a	24.576MHZ ACT9200 SMD (RC)
90-2058	n/a	32.00MHZ ACT9200 SMD (RC)
90-2034	n/a	1.8432MHZ ACT9200 SMD (RC)
90-2050	n/a	16.00MHZ ACT9200 SMD RC
90-2052	n/a	20.00MHZ ACT9200 SMD (RC)
90-2054	n/a	24.00MHZ ACT9200 SMD (RC)
90-2068	n/a	125.00MHZ ACT9200 SMD
90-2046	n/a	14.31818MHZ ACT9200 SMD
90-2048	n/a	14.7456MHZ ACT9200 SMD
90-2062	n/a	50.00MHZ ACT9200 SMD (RC)
90-2064	n/a	64.00MHZ ACT9200 SMD (RC)
90-2066	n/a	100.00MHZ ACT9200 SMD (RC)
90-1280	RV13300BBCHJPL-PF	OSCILLATOR 133.00MHZ ACT9200 SMD7X5 (RC)
90-1282	RV15625BBCHJPL-PF	OSCILLATOR 156.25MHZ ACT9200 SMD7X5 (RC)
90-2060	n/a	40.00MHZ ACT9200 SMD (RC)

	Page 1 of 2
The enclosed information is believed to be correct, Information may change without notice due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 20/02/2007

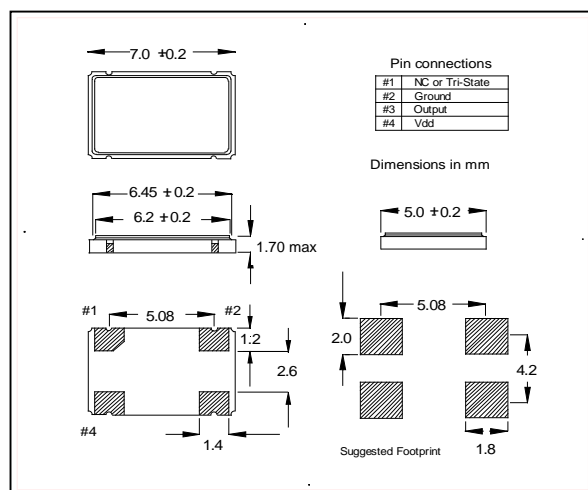
ACT9200

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.



SPECIFICATION

Parameter	Symb.	Specification		Condition
Supply Voltage	VDD	3.3Vdc ± 10%	5.0Vdc ± 10%	
Frequency Range	fo	1.000 ~ 177.00 MHz	1.500 ~ 106.25 MHz	
Frequency Stability	Δf/fo	±25ppm ~ ±100ppm		
Temp Operating Range	Topr	0 ~ +70°C to -40 ~ +85°C available (-10 +70 Std)		Please specify
Temp Storage Range	Tstg	-55 to +125°C		
Supply Current (max)	Iop	16mA (1.000 ~ 34.999 MHz)	25mA (1.500 ~ 34.999 MHz)	
		25mA (35.000 ~ 60.00 MHz)	40mA (35.00 ~ 60.000 MHz)	
		40mA (60.01 ~ 99.999 MHz)	60mA (60.001 ~ 99.999 MHz)	
		50mA (100.00 ~ 155.00 MHz)	80mA (100.00 ~ 106.25 MHz)	
		60mA (155.01 ~ 177.00 MHz)		
Duty Cycle	Tw/t	45/55% (Std) & 40/60% available		Please specify
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	10nS (1.000 ~ 34.999 MHz)	10nS (1.50 ~ 49.999 MHz)	
		5nS (35.00 ~ 99.999 MHz)	5nS (50.00MHz ~ 99.90 MHz)	
		2.5nS (100.00 ~ 177.00 MHz)	3nS (100.00 ~ 106.25 MHz)	
Output Load	N/CL	10TTL / 15pF (30pF available)		Please specify
Start-up Time	Tosc	10mS max		
Tri-state Input Voltage	No Connection	Enable output		
	VIH : ≥90% of VDD	Enable output		
	VIL : ≤10% of VDD	Disable output : High Impedance		
Aging	Fa	±5ppm	±5ppm	/ yr max @25°C
Period Jitter (Absolute)	Tj	100pS max		
Period Jitter (one sigma)	Tj	25pS max		



APPLICATIONS

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

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

This product is manufactured by a lead-free process and is suitable for wave or reflow lead-free soldering.

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

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

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

ISO9001: 2000 Registered - Registration number 6830/2

For quotations or further information please contact us at:

3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK
<http://www.actcrystals.com>

Issue: 4 SK

Date: 22/01/04