

## ACT3000 - VCTCXO (HCMOS/TTL)

Compatible with Eu Directive  
2002/EC - RoHS

The ACT3000 family is a range of cost competitive VCTCXOs & TCXOs (For TCXOs - see separate data sheet) housed in a variety of Surface Mount and Through Hole packages, offering good reliability at reasonable cost across a wide range of frequencies, stabilities & temperature ranges. Internal Trimmer as standard. **Applications** include Communications, Instrumentation, GPS, Measurement and many more.

In addition to normal specifications it is also necessary to select the package - see page 2.



### Specification

Parameter	Symbol	Specification	Condition
Frequency Range	fo	1.00 ~ 200 MHz	Please specify
Temp Operating Range	Topr	-10° ~ +60°C, -40 ~ +85°C	Please specify
Storage Temp Range	Tstg	-55 ~ 125°C	
<b>Frequency Stability</b>			
vs Operating Temp.	$\Delta f/fo$	1~40 (♥), 40.1~59.9 (♣) 60~99.9 (♦), 100~160 (♠)MHz	See table 1 Please specify
vs Input Voltage	Vin	±0.3ppm max	
vs Load		±0.3ppm max	
Aging	Fa	±1ppm max	Per year
Supply Voltage	V	3.3VDC ±5% or 5.0VDC±5%	Please specify
Supply Current	I	80mA max	
Duty Cycle	Tw/t	40/60%, 45/55%	Please specify
Rise & Fall Time	Tr/Tf	8nS max	
Frequency Adjustment	$\Delta fc$	±3ppm min	Mechanical
Output Load	N/CL	15pF / 10 TTL	
Output Level '0'	VOL	0.4VDC max (TTL) 10% VDD max (HCMOS)	
Output Level '1'	VOH	2.4VDC min (TTL) 90% VDD min (HCMOS)	
Voltage Control	Vc	1.65VDC ± 1.65V 2.5VDC ± 2.0V	3.3VDC ±5% 5.0VDC±5%
Frequency Tuning		±5ppm ~ ±20ppm	
Output	O/P	HCMOS / TTL	Please specify
Polarity		Positive	

Table 1

Stability Temp	ppm					
	±1.5	±2.0	±2.5	±3.0	±3.5	±5.0
0 ~ 50°C	♥ ♣ ♦	♥ ♣ ♦ ♠	♥ ♣ ♦ ♠	♥ ♣ ♦ ♠	♥ ♣ ♦ ♠	♥ ♣ ♦ ♠
-10 ~ 60°C	♥	♥ ♣	♥ ♣	♥ ♣ ♦	♥ ♣ ♦	♥ ♣ ♦ ♠
-20 ~ 70°C		♥	♥ ♣	♥ ♣	♥ ♣ ♦	♥ ♣ ♦ ♠
-30 ~ 75°C			♥	♥ ♣	♥ ♣	♥ ♣
-40 ~ 85°C				♥	♥	♥ ♣

**For package details / options please see page 2.**

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

Customer to specify : Frequency, Operating Temperature, Frequency Stability, Supply Voltage, Duty Cycle, Output, Package

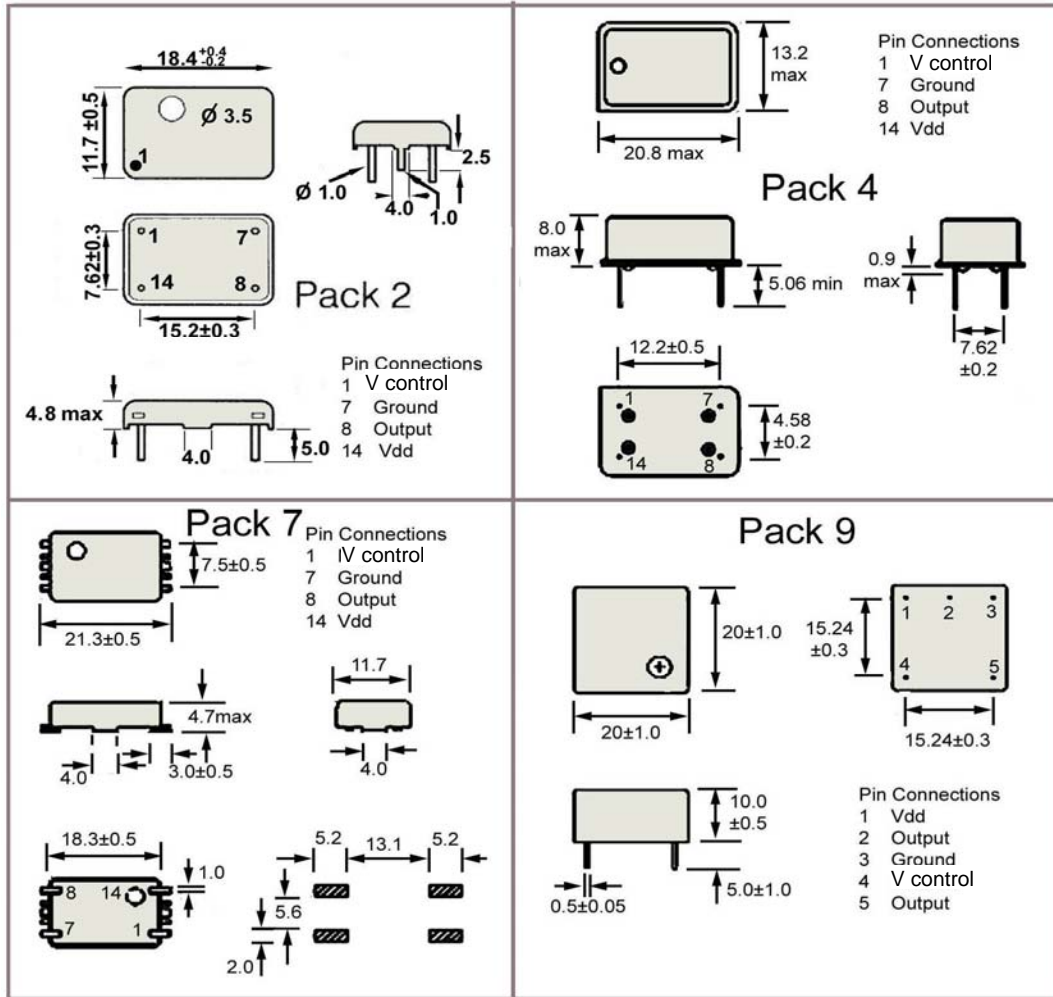
In line with our ongoing policy of product evolution and improvement, the above specification may be subject to change without notice

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For quotations or further information please contact us at:  
 3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK  
<http://www.actcrystals.com>

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## ACT3000 - VCTCXO (HCMOS/TTL) PACKAGE OPTIONS



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