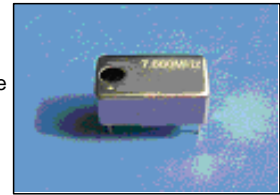


Compatible with Eu Directive
 2002/EC - RoHS

ACT3A01T (TCXO) ACT3A01VT (VCTCXO)

The ACT3A01T/ VT family is a range of TC/ VCTCXOs housed in through hole packages, with various height options, and provides for high frequency stabilities across a wide operating temperature and supply voltage range. Parts are available with internal trimmer options and clipped sine / sine and square wave outputs. The devices offer good reliability at a low cost and, whilst primarily developed for Telecommunications Applications, they are also very suitable for many other Networking, Set Top Box, Phase Locked Loops, Video Game & many Consumer Applications.



Specification

Parameter	Symbol	Specification	Conditions
Supply Voltage	Vcc	3.0V DC, 5.0VDC & 8.0VDC(±5%)	VCTCXO 3.0 & 5.0V Only
Frequency Range	fo	8.00 ~ 50.00 MHz	Please specify
Temp Operating Range	Topr	See table below for available range	
Temp Storage Range	Tstg	-55 to +85°C	
<u>Initial Calibration Tolerance</u>	$\Delta f/fo$	Adjust to the nominal frequency ±1.0ppm Typical @ 25°C ±2.0°C	With internal trimmer Without internal trimmer
<u>Frequency Stability</u>			
vs Operating Temp	$\Delta f/fo$	See table below for available stabilities	Please specify
vs Change in Vcc	Vin	±0.3ppm for 5% change	
vs Change in Load		±0.3ppm for 10% change	
Aging	Fa	±1ppm / year max @25°C	
Supply Current (max)	Iop	3mA max (Clipped sine), 20mA max (Square wave), 10mA max (Sine)	
<u>Output</u>		Clipped sine : 0.8V p-p min, 10KΩ//10pf Load	(
		Sine : 1.0V p-p Minimum	<(Please specify
		Square Wave ; 5TTL / 15pf	(
Harmonic suppression (Sine)		-30dB max	
Non-Harmonic suppression (Sine)		-70dB max	
Frequency Tuning Range (Mech')		±3ppm Typical (25°C ±2.0°C)	By internal trimmer
Frequency Tuning Range (Voltage)		±5ppm ~ ±30ppm, ±15ppm Typical	VCTCXO Only
Control Voltage Range	Vcont	1.5V ±1.0V @ 3.0Vcc, 2.5V ±2.0V @ 5.0Vcc	VCTCXO Only
Slope Polarity		Positive	VCTCXO Only
Linearity		10% max	VCTCXO Only
Start-up Time	Tosc	2ms max	
SSB Phase Noise (Typical)		-135dBc/Hz max @ 1KHz offset	(Typical for 10.0Mhz Device)

STABILITY Vs OPERATING TEMPERATURE (Referenced to 25°C)

Deg C	±1.0ppm	±1.5ppm	±2.0ppm	±2.5ppm	±3.0ppm	±5.0ppm
-0 ~ +50	★	★	★	★	★	★
-10 ~ +60	★	★	★	★	★	★
-20 ~ +70	★	★	★	★	★	★
-30 ~ +75		★	★	★	★	★
-40 ~ +85					★	★

For package details / options, please see following page.

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

Customer to specify : Frequency, Supply Voltage, Frequency Stability, TCXO or VCTCXO (T or VT) & Package 1,2,3 or 4 & Output

In line with our ongoing policy of product evolution 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, Berkshire, RG41 2EY, UK

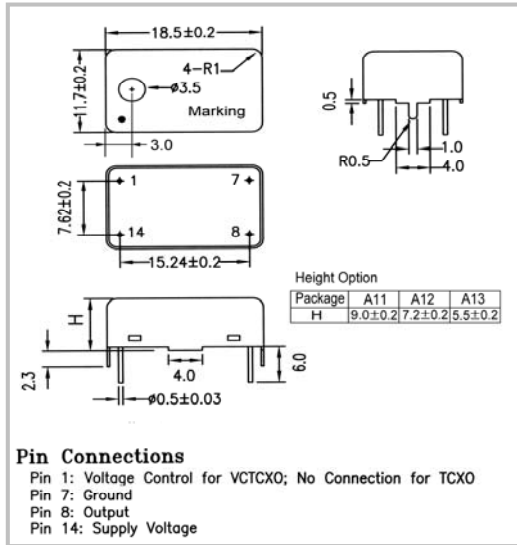
<http://www.actcrystals.com>

Issue:1 B3

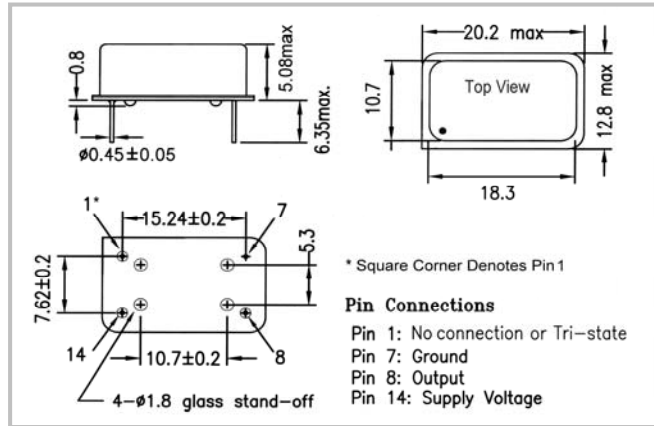
Date: 11/08/04

ACT3A01T (TCXO) ACT3A01VT (VCTCXO)

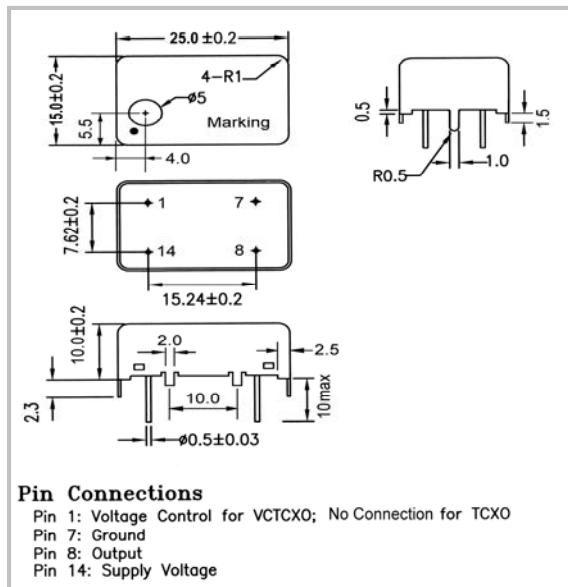
PACK ONE



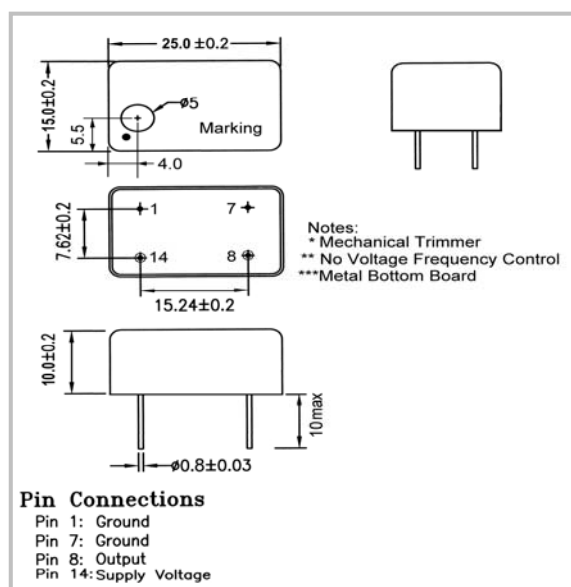
PACK TWO



PACK THREE



PACK FOUR



In line with our ongoing policy of product evolution 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, Berkshire, RG41 2EY, UK
<http://www.actcrystals.com>