

ACT3A11T (TCXO) ACT3A11VT (VCTCXO)

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> Compatible with Eu Directive 2002/EC - RoHS



The ACT3A11T/VT family is a range of TC/VCTCXOs housed in a through hole package and provides a high frequency stability across a wide 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 and, whilst primarily developed for Telecommunications Applications, they have been found to be very suitable for many other Networking, Ethernet, Audio & Modem Clocks, Set Top Boxes, Phase Locked Loops, Video Games & many Consumer Applications.

Specification

Parameter	Symbol	Specification	Conditions			
Supply Voltage	Vcc	5.0VDC, 8.0VDC & 12.0VDC (±5%)	(3A11T = 5V0 only)			
Frequency Range	fo	10.00 ~ 40.00 MHz Please specify				
Temp Operating Range	Topr	-40 to +85°C				
Temp Storage Range	Tstg	-55 to +85°C				
Initial Calibration Tolerance	Δf/fo	Adjust to the nominal frequency	With internal trimmer			
		±1.0ppm Typical @ 25°C ±2.0°C	Without internal trimmer			
Frequency Stability						
vs Operating Temp	Δf/fo	See table below for available stabilities				
vs Change in Vcc	Vin	±0.2ppm for 5% change				
vs Change in Load		±0.2ppm for 10% change				
Aging	Fa	±1ppm / year max @25°C				
Supply Current (max)	lop	20mA max				
Output		Clipped Sine / Sine : 0.8V p~p min, 10K Ω//10pf Load	Clipped Sine / Sine : 0.8V p~p min, 10K Ω//10pf Load			
Square Wave ; 10TTL / 15pf		Square Wave ; 10TTL / 15pf				
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	2.5V ±2.0V @ 5v0Vcc	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						

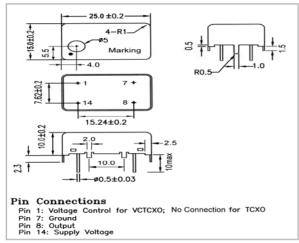
STABILITY Vs OPERATING TEMPERATURE

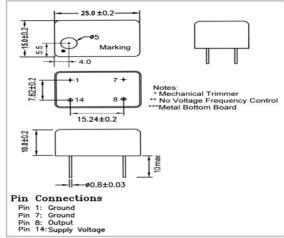
(Referenced to 25°C

Deg C	±1.0ppm	±1.5ppm	±2.0ppm	±2.5ppm
-40 ~ +85	*	*	*	*

PACK ONE (TC/VCTCXO)

PACK TWO (TCXO ONLY)





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 or 2 for TCXO (Pack 1 = T only)

In line with our ongoing policy of product evolvement 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

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