

ACT381T-4(6) ACT381VT-4(6) TCXO / VCTCXO(Clipped Sinewave)

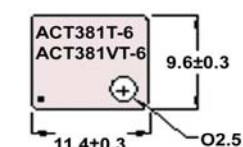
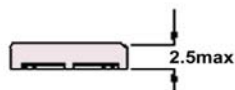
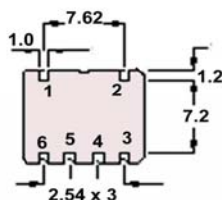
The ACT381 family is a range of four and six pad TCXOs and VCTCXOs housed in a Metal PCB based SMD package. In addition to this data sheet there is a separate TCXO data sheet for a HCMOS/TTL version. It is therefore necessary to select the output and the function to ensure that you receive the correct part. e.g. Clipped Sinewave and TCXO or VCTCXO.

Specification

Parameter	Symbol	Specification		Condition
Supply Voltage	Vdd	3.3V _{dc} ±5%	5.0V _{dc} ±5%	Please specify
Frequency Range	f _o	10.00 ~ 30.00 MHz		Please specify
Temp Operating Range	T _{opr}	Please refer to Table 1		Please specify
Storage Temp Range	T _{stg}	-55 ~ 125°C		
Frequency Stability				
vs Operating Temp	Δf/f _o	Please refer to Table 1		Please specify
vs Input Voltage	V _{in}	±0.3ppm max		
vs Load		±0.3ppm max		
Aging	F _a	±1ppm max Per year		
Supply Current	I _{op}	3mA max		
Frequency Adjustment	Δf/V _{cntrl}	±5ppm	±15ppm	VCTCXO Only
Control Voltage	V _{cntrl}	1.65V _{dc} ±1.35V	2.5V _{dc} ±2.0V	VCTCXO Only
Polarity / Linearity		Positive / 5% or 10%		VCTCXO Only
Output Load	N/CL	10KΩ//10pF		
Mechanical Frequency Trimming		±3.0ppm min		Internal Trimmer
Output Voltage	V _{out}	0.7V p-p	1.0V p-p	

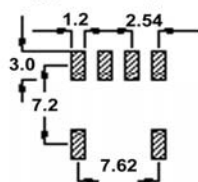
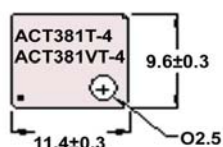
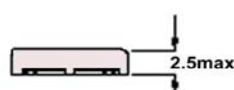
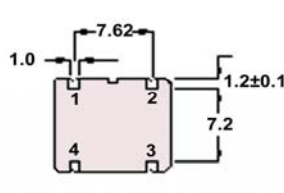
Table 1 Frequency stability v temperature.

Stability	ppm					
Temp	±1.5	±2.0	±2.5	±3.0	±3.5	±5.0
0 ~ 50°C	✓	✓	✓	✓	✓	✓
-10 ~ 60°C		✓	✓	✓	✓	✓
-20 ~ 70°C			✓	✓	✓	✓
-30 ~ 75°C				✓	✓	✓
-30 ~ 80°C						✓



Pin Connections
 #1 Ground
 #2 Ground
 #3 Output
 #4 Ground
 #5 TCXO: No connection
 VCTCXO: V Control
 #6 Vdd

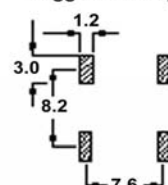
Suggested Footprint



Pad surface material
 Au

Pin connections
 #1 TCXO: No connection
 VCTCXO: V control
 #2 Ground
 #3 Output
 #4 Vdd

Suggested footprint



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

Customer to specify : Outline, Frequency, Output Type, Stability, Operating Temperature Range, Supply Voltage, Tuning Range.
 In line with our ongoing policy of product evolution and improvement, the above specification may be subject to change without notice

ISO9001:2000 Registered

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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>