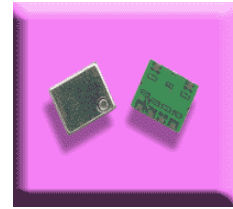


Compatible with Eu Directive  
2002/EC - RoHS

## ACT381T- 4 & 6 TCXO (HCMOS/TTL)

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 / VCTCXO data sheet for a clipped sine wave 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.



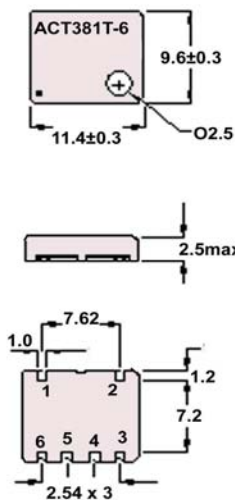
### Specification

Parameter	Symbol	Specification	Condition
Supply Voltage	Vdd	3.3VDC ±5%      5.0VDC±5%	Please specify
Frequency Range	fo	10.00 ~ 30.00 MHz	Please specify
Temp Operating Range	Topr	Please refer to table 1	Please specify
Storage Temp Range	Tstg	-55 ~ 125°C	
<b>Frequency Stability</b>			
vs Operating Temp	Δf/fo	Please refer to table 1	Please specify
vs Input Voltage	Vin	±0.3ppm max	
vs Load		±0.3ppm max	
Aging	Fa	±1ppm max per year	
Supply Current	Iop	20mA max	
Duty Cycle	Tw/t	40/60% standard , 45/55% option	Please specify
Rise & Fall Time	Tr/Tf	8nSec max	
Mechanical Frequency Adjustment		±3.0ppm min	** Internal trimmer
Output	N/CL	HCMOS / TTL	
Output Load	N/CL	15pF / 10TTL	
Output Level '0'	VOL	0.4VDC max (TTL)      10% VDD max (HCMOS)	
Output Level '1'	VOH	2.4VDC min (TTL)      90% VDD min (HCMOS)	

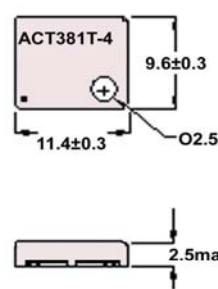
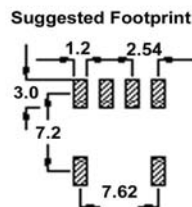
\*\* For some specifications a version without a trimmer may be available. Enquire.

Table 1

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						✓

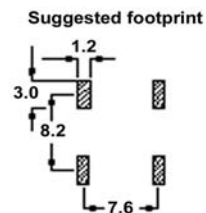
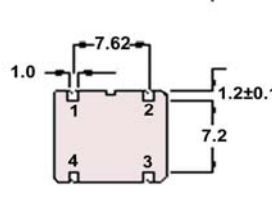


**Pin Connections**  
 #1 Ground  
 #2 Ground  
 #3 Output  
 #4 Ground  
 #5 No connection  
 #6 Vdd



Pad surface material Au

**Pin connections**  
 #1 No connection  
 #2 Ground  
 #3 Output  
 #4 Vdd



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

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

ISO9001:2000 Registered

Issue 6 D2  
 Date: 15/11/05

For quotations or further information please contact us at:  
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<http://www.actcrystals.com>