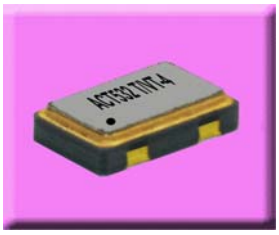
Tel : 0044 (0)118 979 1238
Fax : 0044 (0)118 979 1283
email : info@actcrystals.com

ACT532T- 4 & ACT532VT-4

Compatible with Eu Directive 2002/EC - RoHS

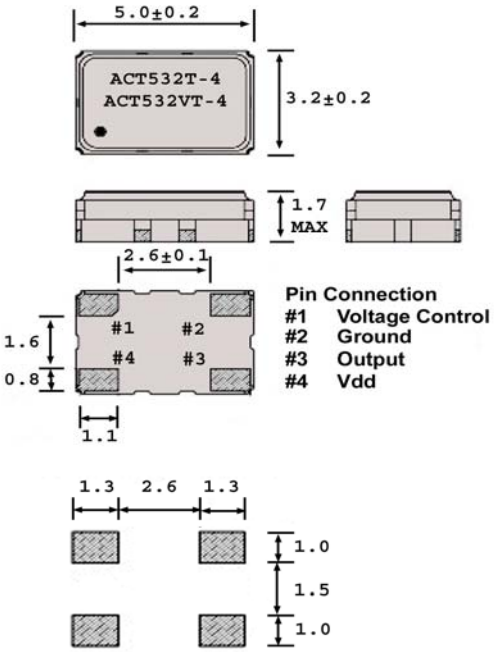
The ACT532T/VT-4 is available in TCXO and VCTCXO versions, both of which are housed in a 5x3.2mm ceramic package, with a seam sealed metal lid. The metal lid is grounded via the base to assist with EMC issues and the pads are gold plated. The product is available in either loose quantities or taped and reeled packaging to cater for both low and high volume requirements. The devices are very suitable for a variety of Communications and Wireless Applications.

Please specify whether you require a TCXO or VCTCXO version when ordering.



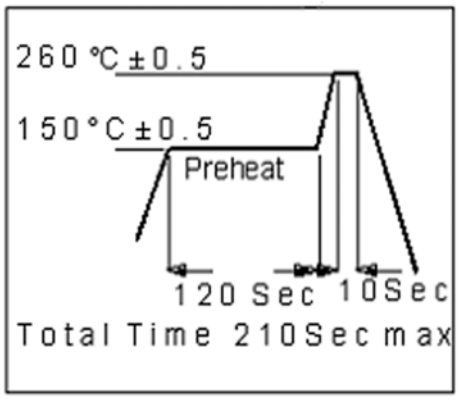
Specification

Parameter	Symbol	Specification	Condition
Frequency Range	fo	12.000 ~ 26.000 MHz	Please specify
Frequency Stability			Please specify
vs Temperature	$\Delta f/f_0$	See table 1	
vs Aging	F_a	±1.0ppm per year	
vs Voltage change		±0.3ppm (± 5%)	
vs Load change		±0.3ppm 10kΩ / 10pF ± 10%	
Operating Temp Range	T_{opr}	See table 1	Please specify
Storage Temp Range	T_{stg}	-40~+85 °c	
Supply Voltage	V_{dd}	3.3V ±5%	
Supply Current	I_{dd}	2.0mA max	
Start up Time		3.0mS max, 2mS typ.	
Voltage Control Range	V_c	$1.65V_{DC}$ ±$1.65V_{DC}$	VCTCXO
Tuning Adjustment		±5ppm or ±10ppm min (Over V_c range)	VCTCXO
Slope Polarity		Positive	VCTCXO
Linearity		10% max	VCTCXO
Output Waveform		Clipped Sine Wave	
Output Voltage	V_{out}	0.8V p-p max	
Output Load	N/CL	10kΩ / 10pF	



Land Pattern

Pad Surface Finish : Au over Ni



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

Customer to specify :Type, Frequency, Stability, Tuning, Operating Temperature Range, Supply Voltage.

In line with our ongoing policy of product evolvement 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

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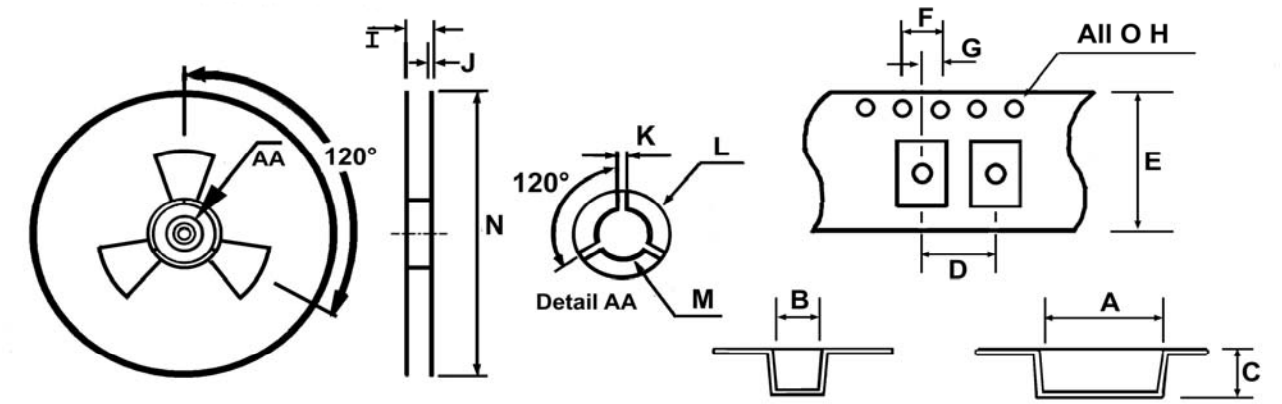
TABLE 1 - AVAILABLE STABILITIES

Operating Temperature	Frequency stability								
	±1.0ppm	±1.5ppm	±2.0ppm	±2.5ppm	±3.0ppm	±3.5ppm	±4.0ppm	±4.5ppm	±5.0ppm
0~50 °C	*	*	*	*	*	*	*	*	*
-10~60°C		*	*	*	*	*	*	*	*
-10~70°C		*	*	*	*	*	*	*	*
-20~70°C			*	*	*	*	*	*	*
-30~60°C				*	*	*	*	*	*
-30~70°C				*	*	*	*	*	*
-30~75°C				*	*	*	*	*	*
-40~80°C						*	*	*	*
-40~85°C						*	*	*	*

TAPE& REEL SPECIFICATION

(1K Pieces per reel)



A	B	C	D	E	F	G	H	I	J	K	L	M	N
±0.1	±0.1	±0.1	±0.1	±0.3	±0.1	±0.05	+0.1 -0.0	+0.8 -0.0	±0.2	±0.5	±0.5	±0.5	±0.2
5.5	3.8	1.8	8.0	16.0	4.0	2.0	1.5	21.5	2.0	2.0	Ø23	Ø13	Ø330 Ø178

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