

# 14.3 x 9.3 mm, OVEN-CONTROLLED, HCMOS, SMD, XO

**Model: FTP301AH Series**    **RoHS Compliant (exemption 7c-1) / REACH Compliant**    **Rev. 6/28/2013**

Page 1 of 2

[http://www.foxonline.com/need\\_a\\_sample.htm](http://www.foxonline.com/need_a_sample.htm)

Need a  
Sample®

## • PART NUMBER SELECTION

Part Number	Model Number	Frequency Range
850-Frequency-xxxxx	FTP301AH	5 MHz to 40 MHz

## • DEVELOPED FREQUENCIES

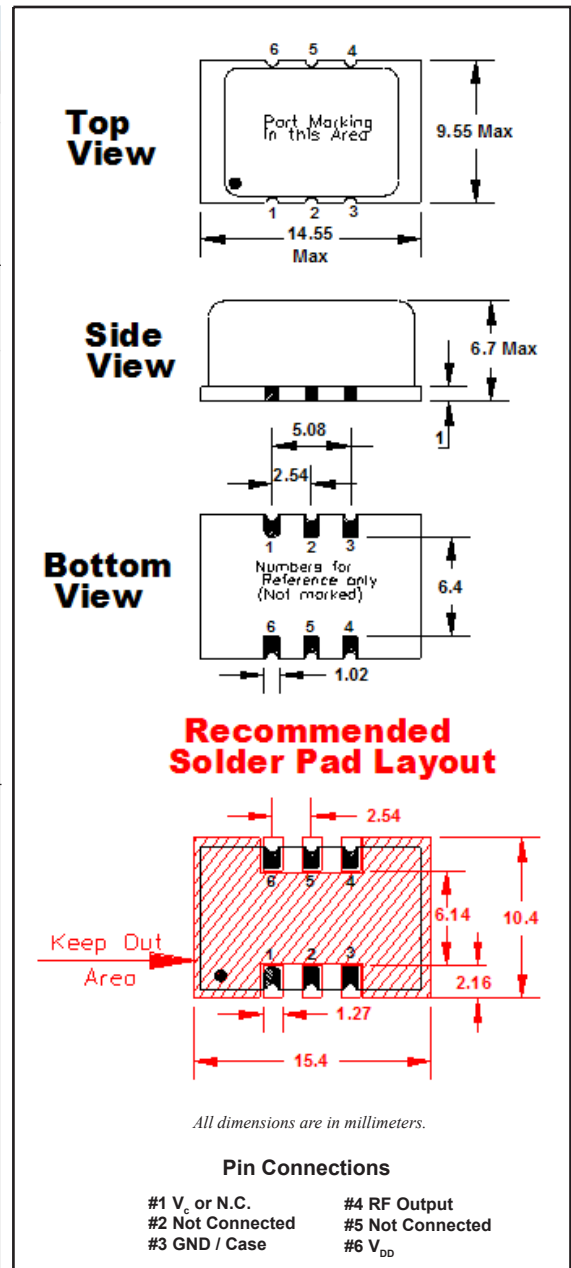
10 MHz	12.8 MHz	15.36 MHz	16.384 MHz
19.2 MHz	20 MHz	25 MHz	

## • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	5.000 ~ 40.000 MHz
Frequency Stability vs.:	
Operating Temperature (TOPR)	±100 PPB
Referenced to +25°C after 1 hour	
Others available - See page 2	
Change of VDD (±5%)	±20 PPB
Temperature Range	
Operating (TOPR)	-40°C ~ +85°C
Storage (TSTG)	-40°C ~ +85°C
Supply Voltage (VDD)	3.3V <sub>DC</sub> ±5%
5V is available - contact Fox	
Output Load	15 pF Typ
SineWave is available - contact Fox	
Output Wave Shape	
(VOL)	0.1V Typ, 0.4V Max
(VOH)	3.3V Typ, 2.8V Min
Spurious	-60dBc Max
Symmetry	45% / 55%
Control Voltage	
Slope	Positive
Frequency Change (ΔF)	±5 PPM Min
Non-Linearity (0.8V to (VDD)	±10 %
Voltage Control (VC)	0V to 3.3V
Input Impedance (ZIN)	100k Ω
Warm up	
Time (to ±100 PPB)	5 Minutes
(Referenced to Fc @ 60min after turn-on)	
Warm-Up Current	500mA Max
Operating Power	0.6 W Max at 25°C
Aging	
Short-term Aging (After 30 days)	±5 PPB / day Max
Long Term (10-years ALL effects)	±4 PPM Max
Phase Noise	
@ 10 Hz Offset:	-90 dBc/Hz Max
@ 100 Hz Offset:	-115 dBc/Hz Max
@ 1 kHz Offset:	-135 dBc/Hz Max
@ 10 kHz Offset:	-145 dBc/Hz Max
Mosisture Sensitivity Level (MSL)	1
Termination Finish	Au
Weight (Typical)	5.4 grams
Reflow Limits	+250°C Max, 10°s

## FEATURES

- SMD
- 3.3V Operation (5V Avail)
- HCMOS Output



# 14.3 x 9.3 mm, OVEN-CONTROLLED, HCMOS, SMD, XO

**Model: FTP301AH Series**    **RoHS Compliant (exemption 7c-1) / REACH Compliant**    **Rev. 6/28/2013**

Page 2 of 2

[http://www.foxonline.com/need\\_a\\_sample.htm](http://www.foxonline.com/need_a_sample.htm)

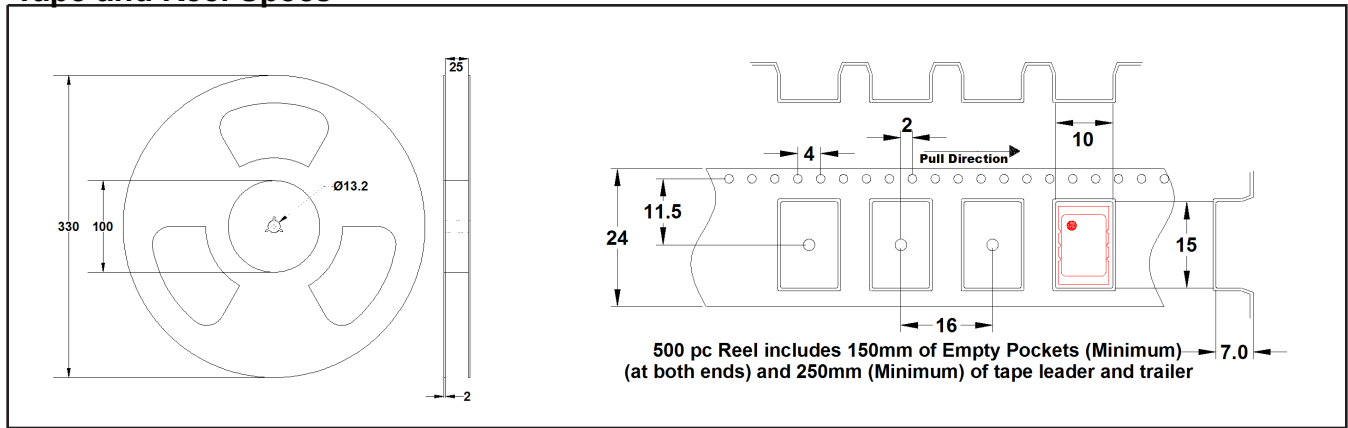


## • Other Stabilities Available

Stability Temperature	±50 PPB	±100 PPB	±200 PPB
0 ~ +70°C	○	○	○
-30°C ~ +70°C	△	○	○
-40°C ~ +85°C	△	○	○

Key: ○ = Available, △ = Conditional, consult Fox

## •Tape and Reel Specs



## V<sub>c</sub> Adjustment circuit:

