

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

Model: FTP301AH Series

RoHS Compliant (exemption 7c-I) / REACH Compliant

Rev. 6/28/2013

Page 1 of 2

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• PART NUMBER SELECTION

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

• DEVELOPED FREQUENCIES

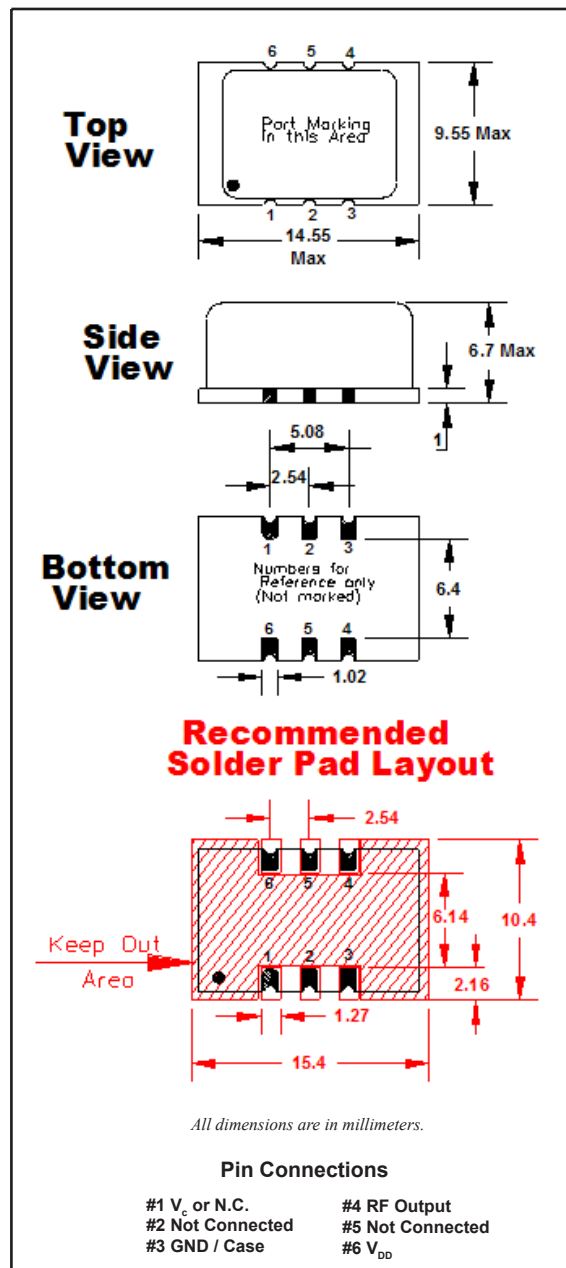
10 MHz	12.8 MHz	15.36 MHz	16.384 MHz
19.2 MHz	20 MHz	25 MHz	

• ELECTRICAL CHARACTERISTICS

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





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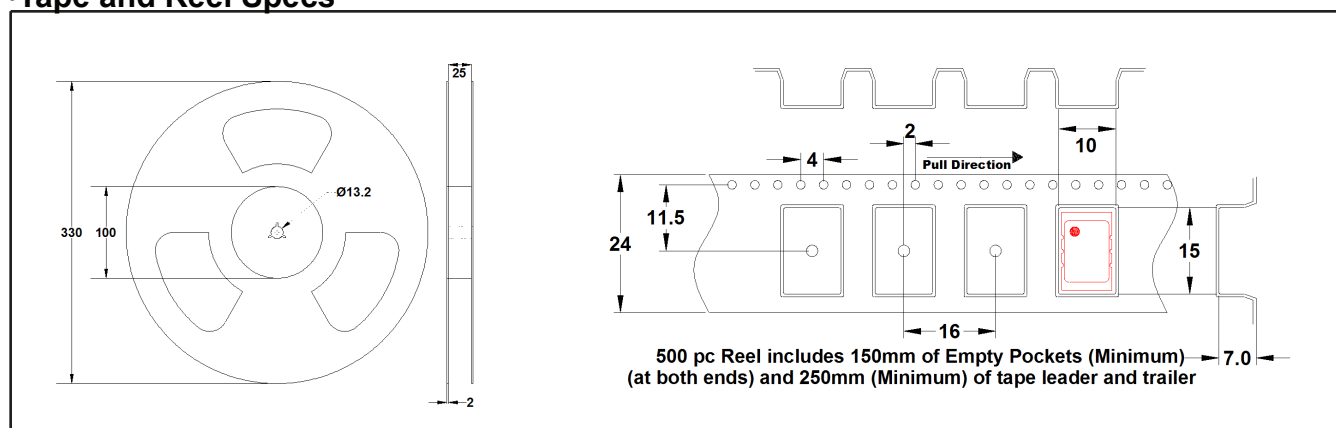
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• Other Stabilities Available

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

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

•Tape and Reel Specs



V_C Adjustment circuit:

