

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

Model: FTP300H Series

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

Rev. 7/15/2014

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• PART NUMBER SELECTION

Part Number	Model Number	Frequency Stability	Frequency Range
850-Frequency-xxxxx	FTP301AH	100ppb (-40~+85°C)	5 MHz to 40 MHz
850B-Frequency-xxxxx	FTP301BH	50ppb (-40~+85°C)	5 MHz to 40 MHz
850C-Frequency-xxxxx	FTP301CH	200ppb (-40~+85°C)	5 MHz to 40 MHz
850D-Frequency-xxxxx	FTP302AH	100ppb (-30~+70°C)	5 MHz to 40 MHz
850E-Frequency-xxxxx	FTP302BH	50ppb (-30~+70°C)	5 MHz to 40 MHz
850F-Frequency-xxxxx	FTP302CH	200ppb (-30~+70°C)	5 MHz to 40 MHz
850G-Frequency-xxxxx	FTP303AH	100ppb (0~+70°C)	5 MHz to 40 MHz
850H-Frequency-xxxxx	FTP303BH	50ppb (0~+70°C)	5 MHz to 40 MHz
850J-Frequency-xxxxx	FTP303CH	200ppb (0~+70°C)	5 MHz to 40 MHz

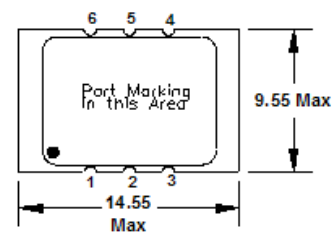
• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	5.000 ~ 40.000 MHz
Frequency Stability vs.:	
Operating Temperature (TOPR)	See table above
Referenced to +25°C after 1 hour	
Others available - contact Fox	
Change of VDD (±5%)	±20 PPB
Temperature Range	
Operating (TOPR)	See table above
Storage (TSTG)	-40°C ~ +85°C
Supply Voltage (VDD)	3.3VDC ±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

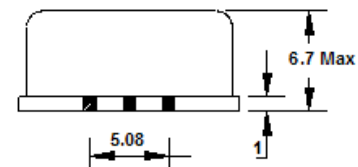
FEATURES

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

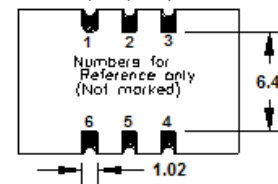
Top View



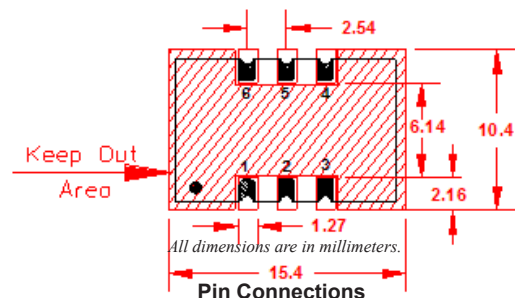
Side View



Bottom View



Recommended Solder Pad Layout



Pin Connections

#1 V_c or N.C. #4 RF Output
 #2 Not Connected #5 Not Connected
 #3 GND / Case #6 V_{DD}

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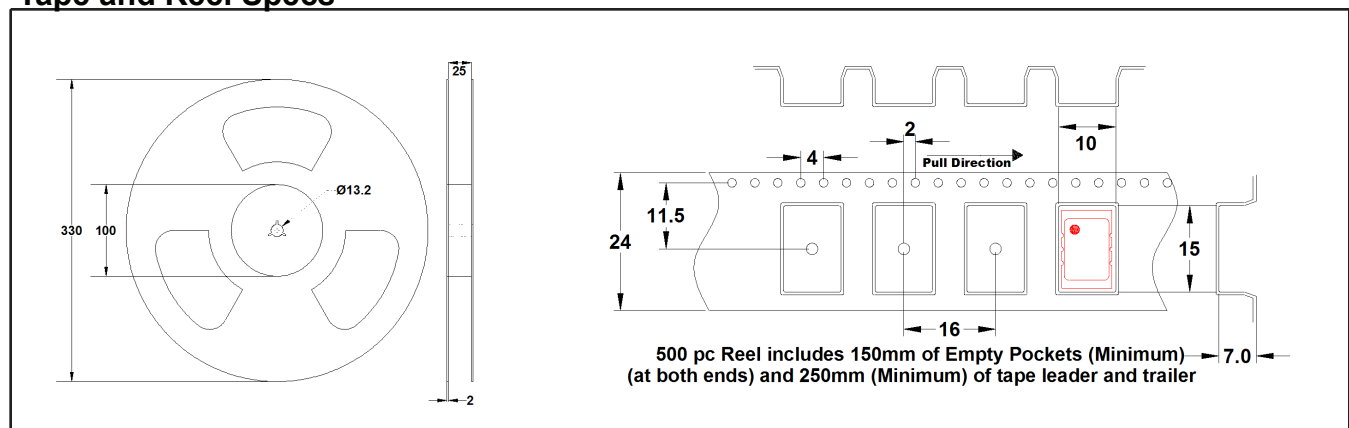
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• DEVELOPED FREQUENCIES

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

•Tape and Reel Specs



V_C Adjustment circuit:

