



# STRATUM III 14-PIN DIP OVEN CONTROLLED CRYSTAL OSCILLATOR

## MODEL: FTS501AH Series

**Discontinued**

### FEATURES

- Meets Stratum III
- 5.0V Operation
- HCMOS Output
- 14-Pin DIP



### • PART NUMBER SELECTION [Learn More - Internet Required](#)

Part Number	Model Number	Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
570-Frequency-xxxxx	FTS501AH	±4.6 PPM	0 ~ +70	2.430 ~ 60.000
570N-Frequency-xxxxx	FTS501AHN	±4.6 PPM	0 ~ +70	2.430 ~ 60.000

Note: FTS501AHN has no voltage control capability.

### • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	2.430 ~ 60.000 MHz
Temperature Range	
Operating (TOPR)	0°C ~ +70°C
Storage (TSTG)	-40°C ~ +85°C
Supply Voltage (VDD)	5V ±0.2V
Output Type	HCMOS
Output Voltage (VOL)	0.5V
(VOH)	4.5V Min
Pullability (Referenced to Fo)	±4.0 PPM Min
Control Voltage (FTS501AH)	0.0V ~ 5.0V
Frequency Stability	
All effects for 10 years Vs. Temp, (ref @ 25° C)	±4.6 PPM
Vs. VDD Change	±250 PPB
Holdover Aging (24 hours)	±100 PPB Typ
Holdover Stability	±20 PPB
Load Stability	±370 PPB
Long Term Aging (1 <sup>st</sup> year)	±10 PPB
Aging (10 years)	±0.75 PPM
Aging (10 years)	±4.2 PPM
Warm-up to within ±4.6 PPM	2 Minutes
Warm-up Power	< 1.5 Watts
Operating Power	1.0W ~ 0°C, 0.6W @ +25°C
Phase Noise (Typical @ 10MHz)	-115 dBc/Hz @ 100 Hz
	-140 dBc/Hz @ 10 kHz
Output Load (CL)	15 pF

RoHS Compliance Status: Not Compliant

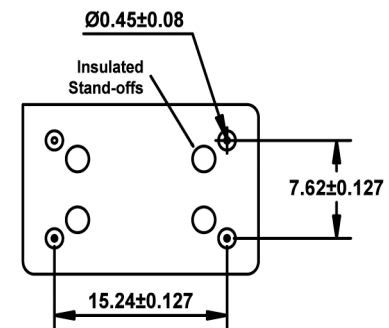
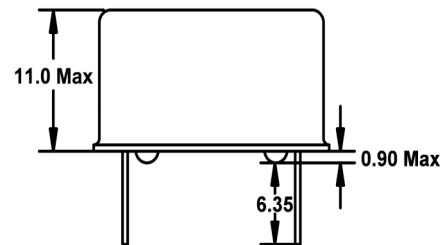
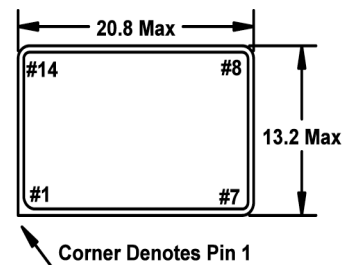
All specifications subject to change without notice. Rev. 11/15/04

### • DEVELOPED FREQUENCIES

2.430 MHz	5.120 MHz	11.000 MHz	24.704 MHz
2.500 MHz	5.500 MHz	12.352 MHz	26.000 MHz
2.560 MHz	6.176 MHz	13.000 MHz	30.000 MHz
3.088 MHz	6.500 MHz	15.000 MHz	32.000 MHz
3.250 MHz	7.500 MHz	16.000 MHz	32.768 MHz
3.750 MHz	8.000 MHz	16.384 MHz	38.880 MHz
4.000 MHz	8.192 MHz	19.440 MHz	40.000 MHz
4.096 MHz	9.720 MHz	20.000 MHz	40.960 MHz
4.860 MHz	10.000 MHz	20.480 MHz	44.000 MHz
5.000 MHz	10.240 MHz	22.000 MHz	

### Learn more about: Part Marking Identification

Internet required



All dimensions are in millimeters.

### Pin Connections

#### FTS501AH

- #1) V<sub>c</sub>
- #7) GND
- #8) Output
- #14) V<sub>DD</sub>

#### FTS501AHN

- #1) NC
- #7) GND
- #8) Output
- #14) V<sub>DD</sub>