STRATUM III 14-PIN DIP OCXO

Model: FTS501_HLF Series **RoHS Compliant** **Rev. 2/25/2009**

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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	Frequency Range (MHz)
570LF-Frequency-xxxxx	FTS501AHLF	±4.6 PPM	0 ~ +70 (ºC)	2.430 ~ 60.000
570BLF-Frequency-xxxxx	FTS501BHLF	±4.6 PPM	-20 ~ +70 (ºC)	2.430 ~ 60.000
570NLF-Frequency-xxxxx	FTS501AHNLF	±4.6 PPM	0 ~ +70 (ºC)	2.430 ~ 60.000
570BNLF-Frequency-xxxxx	FTS501BHNLF	±4.6 PPM	-20 ~ +70 (ºC)	2.430 ~ 60.000

Note: FTS501AHNLF & FTS501BHNLF have no voltage control capability.

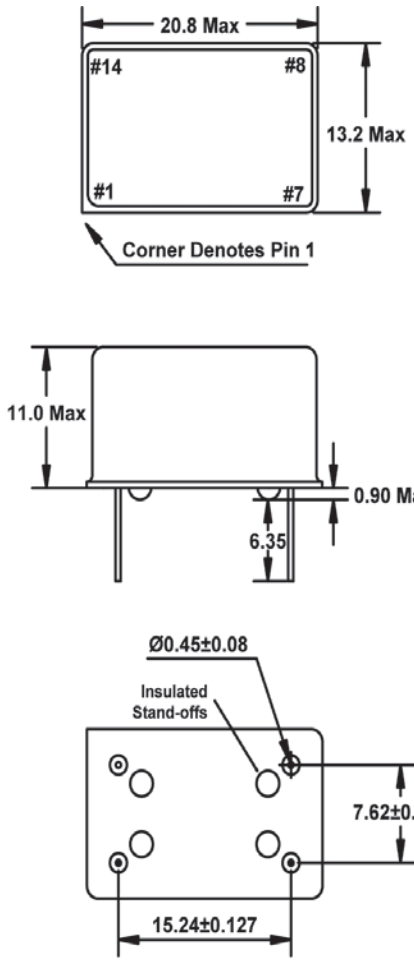
• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	2.430 ~ 60.000 MHz
Temperature Range	
Operating (Topr)	See table above
Storage (Tstg)	-40ºC ~ +85ºC
Supply Voltage (VDD)	+5.0 VDC ±5%
Output Type	HCMOS
Output Load (CL)	15pF
Output Voltage (VOL)	0.5V
(VOH)	4.5V Min
Pullability (Referenced to Fo - AHLF & BHLF only)	±4.0 PPM Min
Accuracy (Applies to AHNLF & BHNLF only at 25º C)	±0.75PPM
Control Voltage (Vc) (AHLF & BHLF only)	0.5V ~ 5.0V
Frequency Stability	
All effects for 10 years	±4.6 PPM
Vs. Temp, (ref @ 25º C)	±250 PPB
Vs. VDD Change	±100 PPB
Holdover Aging (24 hours)	±20 PPB
Holdover Stability	±370 PPB
Load Stability	±10 PPB
Long Term Aging (1st year)	±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 (Typical)	1.0W ~ 0ºC, 0.6W @ +25ºC
Phase Noise (@100Hz, 10kHz)	-115, -140 dBc/Hz
Termination Finish	Sn/Ag/Cu

All specifications subject to change without notice.

• 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	



All dimensions are in millimeters.

Pin Connections

FTS501AHLF/BHLF	FTS501AHNLF/BHNLF
#1) Vc	#1) NC
#7) GND	#7) GND
#8) Output	#8) Output
#14) V_{DD}	#14) V_{DD}

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