Stratum3 VCTCXO

PC207M Series
HCMOS
±4.6ppm overall stability
including 20years aging
±0.25 ppm Holdover stability

* PART NUMBERING GUIDE

P C 2 0 7 M - 5 H 1 0 4 F - 3 8 . 8 8 0 M

Frequency
M : MHz

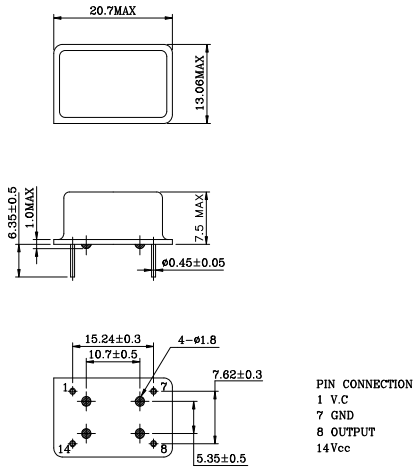
Supply Voltage
5 : 5.0V
3 : 3.3V

Output
H : HCMOS

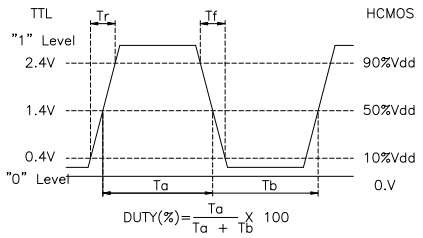
Stability vs. Temperture
See Table1

Temperature Range
Table2

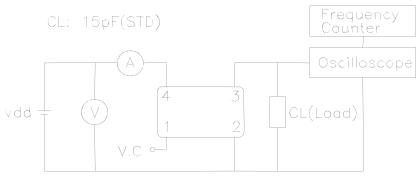
MECHANICAL DIMENSIONS



OUTPUT WAVEFORM



TEST CIRCUIT



ELECTRICAL SPECIFICATION

Frequency range	10.000MHz to 52.000MHz
Frequency Stability vs. Initial Tolerance vs. Temperature vs. Supply Voltage vs. Load vs. 20years Aging	Overall +/-4.6ppm max. ±1.0 ppm @25deg ±0.28 ppm to ±1.0ppm referenced at 25deg (depends on operating temp. range) ±0.1 / ±0.2 ppm max / Vdd± 5% ±0.1 / ±0.2 ppm max /Load±10%
Temperature Range Operating Storage	 See Table 2 -55℃ to 125℃
Supply Voltage	3.3V ± 5% 5.0V ± 5%
Input Current HCMOS	 10.00MHz ~ 52.000MHz 15.0mA max ~ 30.0mA max
Output characteristics	HCMOS Level Voh 0.9Vcc min. Vol 0.1Vcc max. Load 15pF Duty cycle 40/60 or 45/55 % Rise time/Fall time 5ns max.
Pullability	Control voltage 0~Vcc Vdc Pull Range ±5 ~ ±12 ppm Linearity 10% max.
Integrated Phase Jitter	0.1ps RMS max.
Phase Noise (typical) @Freq. offset	-120 dBc / Hz @ 100Hz -140 dBc / Hz @ 1KHz -150 dBc / Hz @ 10KHz

ENVIROMENTAL & MECHANICAL SPECIFICATION

Shock	MIL-STD-883C, Method 2002, Condition B
Vibration	MIL-STD-883C, Method 2007, Condition A
Solderability	MIL-STD-883C, Method 2003
Seal integrity	MIL-STD-883C, Method 1014, Condition C & A2
Marking	MIL-STD-202F, Method 215

TABLE1

Symbol	Stability
02	±0.28ppm
05	±0.5ppm
10	±1.0ppm

TABLE2

Symbol	Temp.	Symbol	Temp.
0	0℃	A	50℃
1	-10℃	B	60℃
2	-20℃	C	70℃
3	-30℃	D	75℃
4	-40℃	E	80℃
		F	85℃

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