TCXO

PT114 Series
Clipped sinewave
6PAD SMD PACKAGE

* PART NUMBERING GUIDE

PT114 - 5 C 10 3D - 20.000M

Frequency
M : MHz

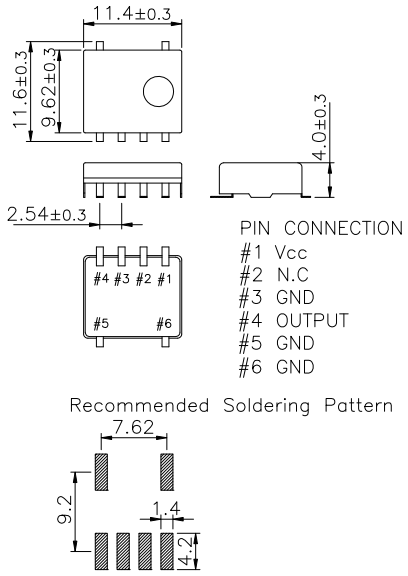
Supply Voltage
5 : 5.0V
3 : 3.3V

Output
C : Clipped sinewave

Stability vs. Temperture
See Table1

Temperature Range
Table2

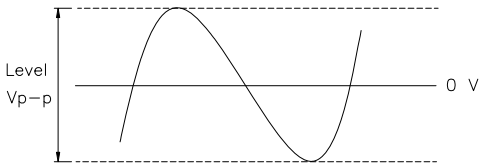
MECHANICAL DIMENSIONS



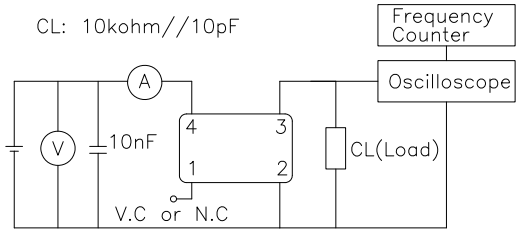
PIN CONNECTION
#1 Vcc
#2 N.C
#3 GND
#4 OUTPUT
#5 GND
#6 GND

Recommended Soldering Pattern

OUTPUT WAVEFORM



TEST CIRCUIT



ELECTRICAL SPECIFICATION

Frequency range	6.000MHz to 190.000MHz (All combinations for Frequency in the range and temp. stability can't be available, please contact factory.)
Frequency Stability vs. Temperature vs. Supply Voltage vs. Load vs. Aging	 ±0.5 ppm to ±5.0ppm ±0.1 / ±0.2 ppm max / Vdd ± 5% ±0.2 ppm max /15pF ±10% ±1.0 ppm max/ year
Temperature Range Operating Storage	 See Table 2 -55℃ to 125℃
Supply Voltage	3.3V ± 5% 5.0V ± 5%
Input Current Clipped sinewave	 6.00MHz ~ 190.000MHz 2.0mA max ~ 30mA max
Output characteristics	Clipped sinewave Level 3.3V 0.8Vp-p min 5.0V 1.0Vp-p min Load 10kΩ//10pF
Phase Noise (typical) @20MHz	-80 dBc / Hz @ 10Hz -120 dBc / Hz @ 100Hz -135 dBc / Hz @ 1KHz -140 dBc / Hz @ 10KHz -145 dBc / Hz @100KHz
Frequency Adjustment	±3ppm min by internal trimmer

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
05	±0.5ppm
10	±1.0ppm
15	±1.5ppm
20	±2.0ppm
25	±2.5ppm
30	±3.0ppm
35	±3.5ppm
50	±5.0ppm

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℃

www.paselectronics.co.kr
Tel : +82-31-776-0113, Fax : +82-31-776-0110 sales@paselectronics.co.kr

PAS ELECTRONICS