TCXO

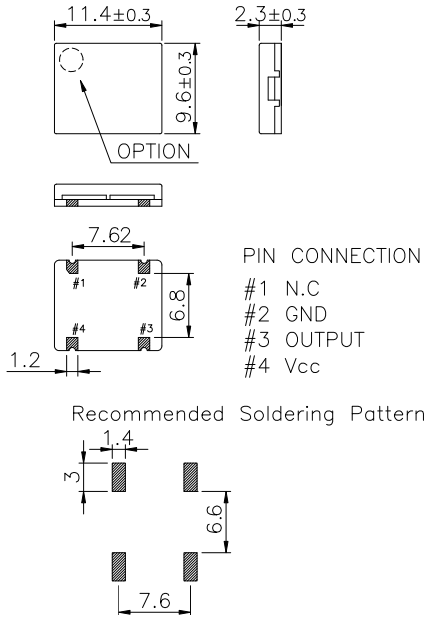
PT112A Series
Clipped sinewave
4PAD SMD PACKAGE

* PART NUMBERING GUIDE

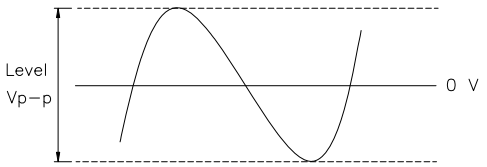
PT112AH - 5 C 10 3D - 10.000M

- PT112A : without Trimmer
- PT112AH : with Trimmer
- Supply Voltage: 5 : 5.0V, 3 : 3.3V
- Output: C : Clipped sinewave
- Stability vs. Temperture: See Table1
- Temperature Range: Table2
- Frequency: M : MHz

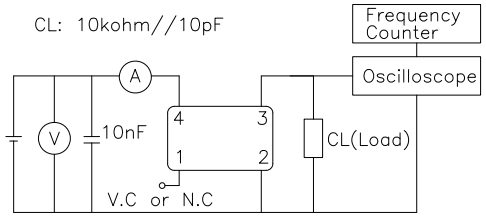
MECHANICAL DIMENSIONS



OUTPUT WAVEFORM



TEST CIRCUIT



ELECTRICAL SPECIFICATION

Frequency range	10.000MHz to 50.000MHz
Frequency Stability vs. Temperature vs. Supply Voltage vs. Load vs. Aging	 ±0.5 ppm to ±5.0ppm ±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	 10.00MHz ~ 50.000MHz 2.0mA max ~ 20mA max
Output characteristics	Clipped sinewave Level 3.3V 0.8Vp-p min 5.0V 1.0Vp-p min Load 10kΩ//10pF
Phase Noise (typical) @10MHz	-110 dBc / Hz @ 10Hz -130 dBc / Hz @ 100Hz -148 dBc / Hz @ 1KHz -155 dBc / Hz @ 10KHz -160 dBc / Hz @100KHz
Frequency Adjustment	±3ppm min by internal trimmer (Option/PT112AH only)

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

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