VCTCXO

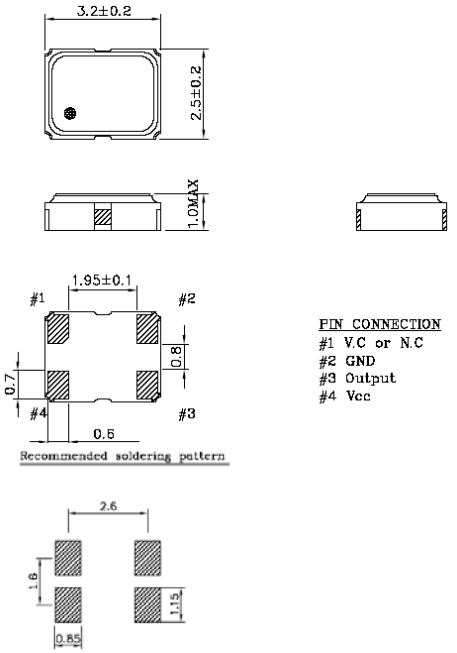
PC32 Series
Clipped sinewave
4PAD SMD PACKAGE

* PART NUMBERING GUIDE

PC32 - 3 C 15 3D 5 - 13.000M

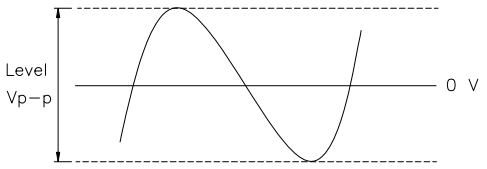
- Supply Voltage: 3 : 3.0V, 2 : 2.8V
- Output: C : Clipped sinewave
- Stability vs. Temperture: See Table1
- Temperature Range: Table2
- Pulling Range: 5 : ± 5 ppm min, 10 : ±10 ppm min
- Frequency: M : MHz

MECHANICAL DIMENSIONS

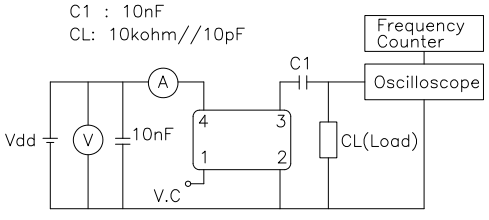


PIN CONNECTION
#1 V.C or N.C
#2 GND
#3 Output
#4 Vcc

OUTPUT WAVEFORM



TEST CIRCUIT



ELECTRICAL SPECIFICATION

Frequency range	10.000MHz to 52.000MHz
Frequency tolerance Frequency Stability	±2.0 ppm at 25deg, 24hours after Reflow
vs. Temperature	±0.5ppm to ±2.5ppm
vs. Supply Voltage	±0.3 ppm max / Vdd ± 5%
vs. Load	±0.2 ppm max /15pF ±10%
vs. Aging	±1.0 ppm max/ year
Temperature Range	
Operating	See Table 2
Storage	-55℃ to 125℃
Supply Voltage	2.8V ~3.3V (± 5%)
Input Current	2.0~3.0mA 10.000MHz to 52.000MHz
Output characteristics Clipped sinewave	Level 0.8Vp-p min Load 10kΩ//10pF
Phase Noise (typical) 20MHz offset	-80 dBc / Hz @ 10Hz -110 dBc / Hz @ 100Hz -135 dBc / Hz @ 1KHz -140 dBc / Hz @ 10KHz -145 dBc / Hz @100KHz
Voltage Control Characteristics	
Output Pulling Range Control Voltage Range	±5.0ppm or ±10ppm min 1.5V ± 1.0V (Vdd : 3.0V)

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

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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