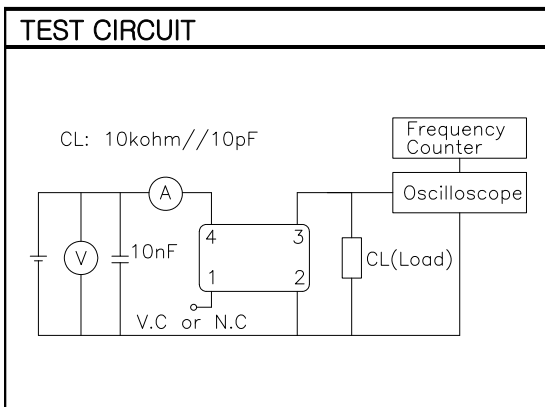
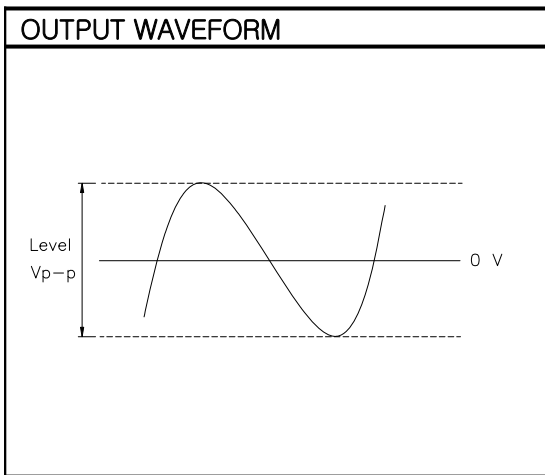
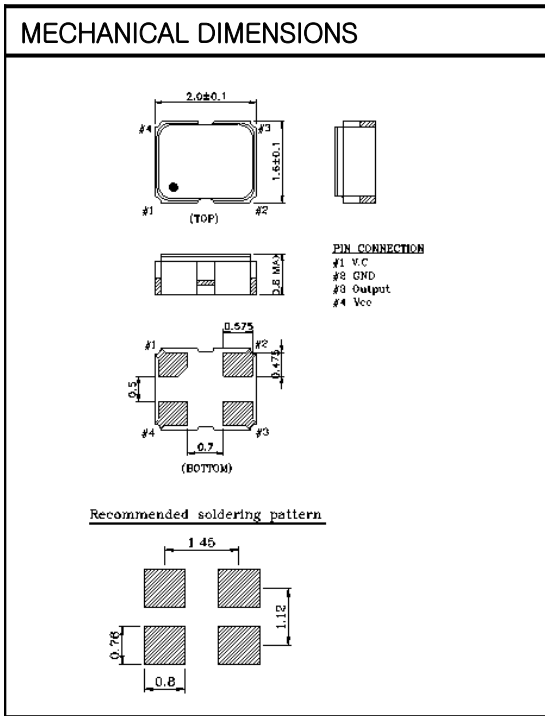
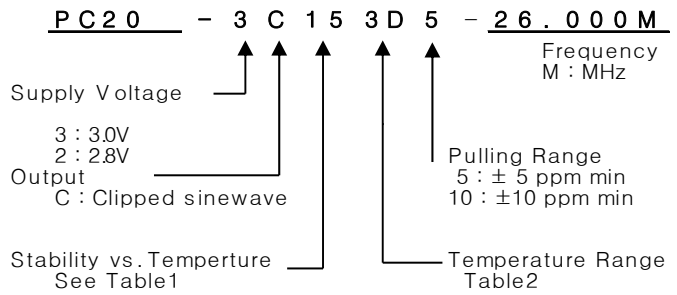


VCTCXO

PC20 Series
Clipped sinewave
4PAD SMD PACKAGE

* PART NUMBERING GUIDE



ELECTRICAL SPECIFICATION

Frequency range	13.000MHz to 52.000MHz
Frequency tolerance Frequency Stability vs. Temperature vs. Supply Voltage vs. Load vs. Aging	± 2.0 ppm at 25deg, 24 hours after Reflow ± 0.5 ppm to ± 2.5 ppm ± 0.2 ppm max / $V_{dd} \pm 5\%$ ± 0.2 ppm max / $15\text{pF} \pm 10\%$ ± 1.0 ppm max/ year
Temperature Range Operating Storage	See Table 2 -55°C to 125°C
Supply Voltage	1.8V ~ 3.3V ($\pm 5\%$)
Input Current	2.5mA max.
Output characteristics Clipped sinewave	Level 0.8Vp-p min Load $10\text{k}\Omega//10\text{pF}$
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	± 5.0 ppm or ± 10 ppm min $1.5\text{V} \pm 1.0\text{V}$ ($V_{dd} : 3.0\text{V}$)

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	± 0.5 ppm
10	± 1.0 ppm
15	± 1.5 ppm
20	± 2.0 ppm
25	± 2.5 ppm

TABLE2

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