

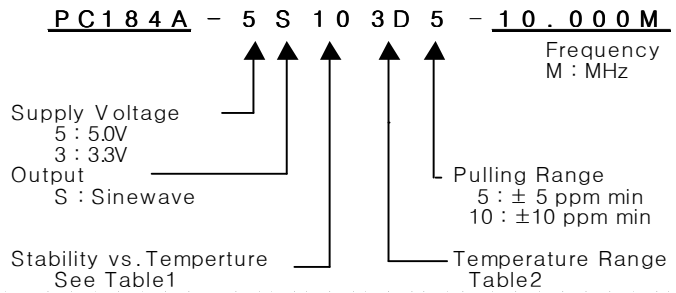
VCTCXO

PC184A Series

Sinewave

14PIN DIP PACKAGE

* PART NUMBERING GUIDE



| MECHANICAL DIMENSIONS | ELECTRICAL SPECIFICATION | | | |
|--|---|---|--|-------------------------|
| <p style="margin-left: 20px;">PIN CONNECTION # 1 V.C # 2 GND # 3 OUTPUT # 4 Supply Voltage</p> | Frequency range | 6.000MHz to 190.000MHz | | |
| | Frequency Stability vs. Temperature vs. Supply Voltage vs. Load vs. Aging | ± 0.5 ppm to ± 5.0 ppm $\pm 0.1 / \pm 0.2$ 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 | $3.3\text{V} \pm 5\%$ $5.0\text{V} \pm 5\%$ | | |
| | Input Current Sinewave | 6.00MHz 12.0mA max | ~ | 190.000MHz 100mA max |
| | Output characteristics | Level 3.3V 5.0V Load | Sinewave 0 dBm typ 10 dBm typ 50 Ω | |
| | Phase Noise (typical) 20MHz offset | -80 dBc / Hz @ 10Hz -120 dBc / Hz @ 100Hz -135 dBc / Hz @ 1KHz -140 dBc / Hz @ 10KHz -145 dBc / Hz @ 100KHz | | |
| | Frequency Adjustment | ± 3 ppm min by internal trimmer | | |
| | Voltage Control Characteristics | | | |
| | Output Pulling Range ($\Delta F / \Delta V$) | ± 5.0 ppm or ± 10 ppm min ($\Delta F / \Delta V > \pm 20$ ppm is available, please contact us) | | |
| | Control Voltage Range | $1.65\text{V} \pm 1.5\text{V}$ ($V_{dd} : 3.3\text{V}$), $2.5\text{V} \pm 2.0\text{V}$ ($V_{dd} : 5.0\text{V}$) | | |
| 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 | | TABLE2 | | |
| Symbol | Stability | Symbol | Temp. | |
| 05 | ± 0.5 ppm | 0 | 0°C | |
| 10 | ± 1.0 ppm | A | 50°C | |
| 15 | ± 1.5 ppm | 1 | -10°C | |
| 20 | ± 2.0 ppm | 2 | -20°C | |
| 25 | ± 2.5 ppm | 3 | -30°C | |
| 30 | ± 3.0 ppm | 4 | -40°C | |
| 35 | ± 3.5 ppm | | | |
| 50 | ± 5.0 ppm | F | 85°C | |
| TEST CIRCUIT | | | | |
| | | | | |