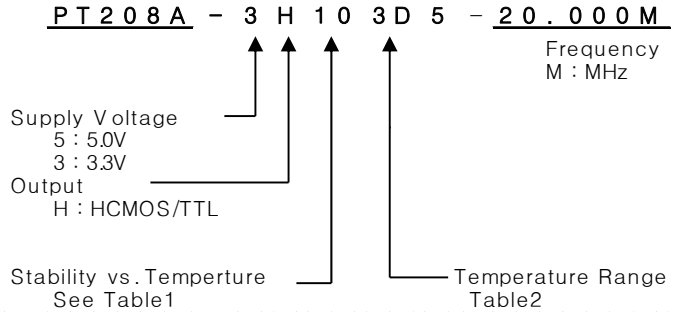


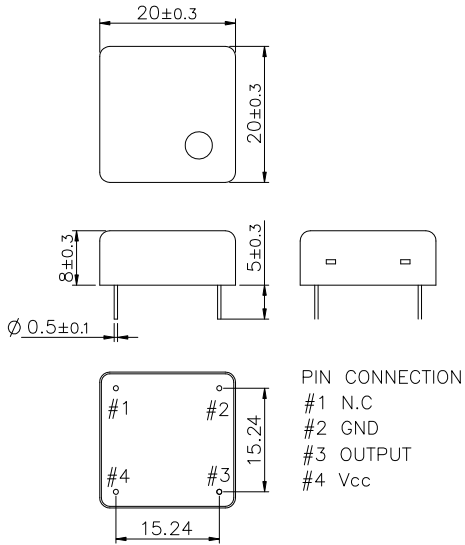
TCXO

PT208A Series
HCMOS/TTL
4PIN DIP PACKAGE

* PART NUMBERING GUIDE



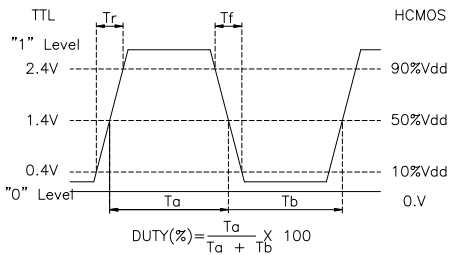
MECHANICAL DIMENSIONS



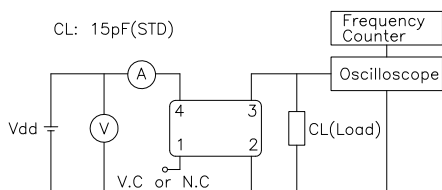
ELECTRICAL SPECIFICATION

| | | |
|---|---|---|
| Frequency range | 1.000KHz to 250.000MHz (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 / ±0.3 ppm max / Vdd ± 5% ±0.2 ppm max / 15pF ±10% ±1.0 ppm max/ year | |
| Temperature Range Operating Storage | See Table 2 -55°C to 125°C | |
| Supply Voltage | 3.3V ± 5% 5.0V ± 5% | |
| Input Current 3.3 V , 5V | 1.000KHz ~ 40.000MHz 15mA max ~ 30mA max | 250.000MHz ~ 50mA max |
| Output characteristics | HCMOS Logic "1" 90% Vdd min Logic "1" 10% Vdd max Load 15pF Duty Cycle 40/60 Rise & Fall 10nS max | TTL 2.4V min 0.4V min 10TTL 40/60 10nS max |
| 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 | |

OUTPUT WAVEFORM



TEST CIRCUIT



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°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 |