

# VCXO

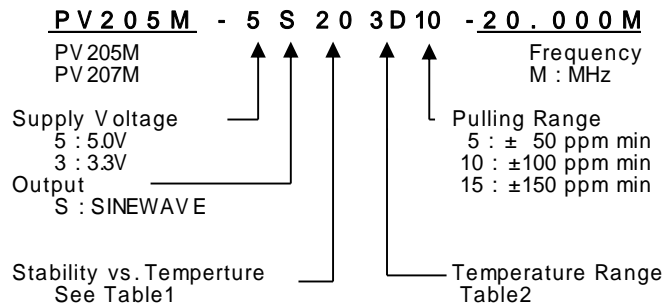
PV205M/PV207M Series

Sinewave

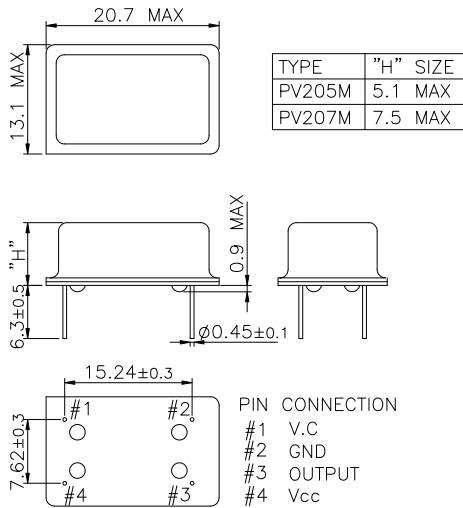
14PIN DIP package

Hermetic package

## \* PART NUMBERING GUIDE



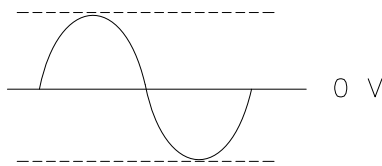
### MECHANICAL DIMENSIONS



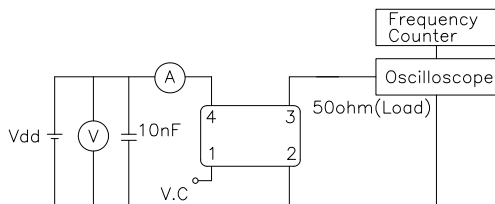
### ELECTRICAL SPECIFICATION

|   |  |   |           |
|---|--|---|-----------|
| Frequency range                               | 1.000MHz to 600.000MHz<br>All combination of Frequency range Vs. Package type can not be available ,please contact factory |   |           |
| Frequency Stability vs. Temperature vs. Aging | ± 10 ppm to ±100ppm<br>±2.0 ppm max/ year  |   |           |
| Temperature Range<br>Operating<br>Storage     | See Table 2<br>-55°C to 125°C  |   |           |
| Supply Voltage                                | 3.3V ± 5%<br>5.0V ± 5%   |   |           |
| Input Current                                 |  | 3.3V(max)                               | 5.0V(max) |
|   | fo ≤ 25.000MHz   | 10mA                                    | 15mA      |
|   | fo ≤ 50.000MHz   | 25mA                                    | 30mA      |
|   | fo ≤ 80.000MHz   | 30mA                                    | 50mA      |
|   | fo ≤ 125.000MHz  | 35mA                                    | 60mA      |
|   | fo ≤ 190.000MHz  | 40mA                                    | 70mA      |
|   | fo ≤ 400.000MHz  | 50mA                                    | 80mA      |
|   | fo ≤ 600.000MHz  | 60mA                                    | 100mA     |
| Output characteristics<br>( Load: 50Ω)        | Supply Voltage<br>3.3V<br>5.0V   | Output Level<br>0 dBm typ<br>+5 dBm typ |           |
| Pull Characteristics                          |  |   |           |
| Pulling Range                                 | ±50ppm / ±100 / ±150 ppm min<br>Wide pulling range : contact company   |   |           |
| Control Range<br>(able Negative slope)        | 1.65V ± 1.5V ( Vdd : 3.3V )<br>2.5V ± 2.0V/2.5V ( Vdd : 5.0V )   |   |           |

### 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 |
|--------|-----------|
| 10     | ± 10ppm   |
| 15     | ± 15ppm   |
| 20     | ± 20ppm   |
| 30     | ± 30ppm   |
| 50     | ± 50ppm   |
| 100    | ±100ppm   |

#### 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  |
| 5      | -50°C | F      | 85°C  |
| 6      | -55°C | G      | 105°C |
|        |       | H      | 125°C |