

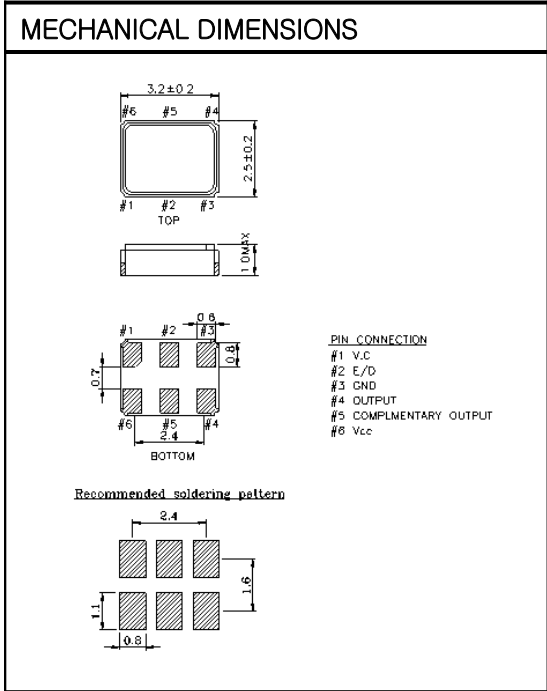
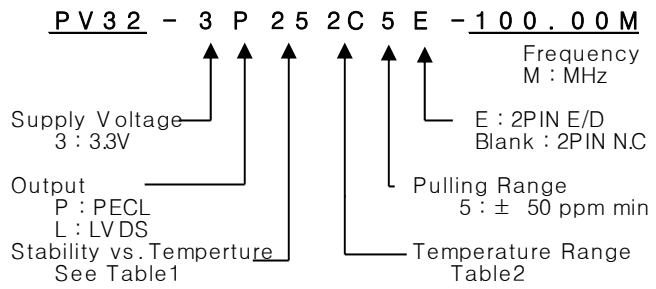
# VCXO

## PV32 Series

### PECL/LVDS

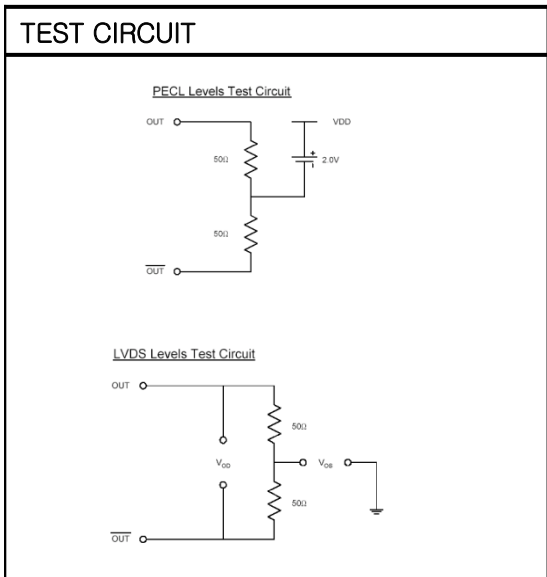
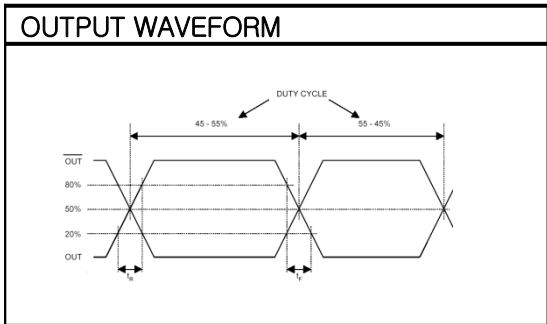
### 6PAD SMD PACKAGE

#### \* PART NUMBERING GUIDE



#### ELECTRICAL SPECIFICATION

|   |  |               |
|---|--|---------------|
| Frequency range                               | 100.000MHz to 250.000MHz<br>All combination of Frequency range Vs. Package type can not be available ,please contact factory |               |
| Frequency Stability vs. Temperature vs. Aging | ± 25 ppm to ±50ppm<br>±3.0 ppm max/ year   |               |
| Temperature Range Operating Storage           | See Table 2<br>-55°C to 125°C  |               |
| Supply Voltage                                | 3.3V ± 5%  |               |
| Input Current                                 | 80mA max   |               |
| Output characteristics                        | PECL(50ohms)   | LVDS(100ohms) |
| Logic "1"                                     | 2.275Vmin -2.42Vmax  | 1.6V max.     |
| Logic "0"                                     | 1.49Vmin -1.68Vmax   | 0.9V min.     |
| Rise Time                                     | 1.0 ns max.  | 1.0 ns max.   |
| Fall Time                                     | 1.0 ns min.  | 1.0 ns min.   |
| Duty Cycle                                    | 50//50 ± 5%  | 50//50 ± 5%   |
| Pull Characteristics                          |  |               |
| Pulling Range                                 | ±50ppm min   |               |
| Control Range                                 | 1.65V ± 1.5V   |               |
| Linearity                                     | 10% max.   |               |
| E/D function                                  | PIN2 : 0.7Vdd min. or open , output Enabled<br>PIN2 : 0.3Vdd max. , output Disabled  |               |
| RMS Jitter(12KHz~20MHz)                       | 1.0 ps max.  |               |



#### 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 |
|--------|-----------|
| 25     | ± 25ppm   |
| 30     | ± 30ppm   |
| 50     | ± 50ppm   |
| XX     | ±XXppm    |

#### 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  |