

# WG Series SMD Oscillators



- Military Industry Standard Package
- 3.3Vdc or 5Vdc Supply Voltage.
- HCMOS/TTL Output.



RoHS compliant



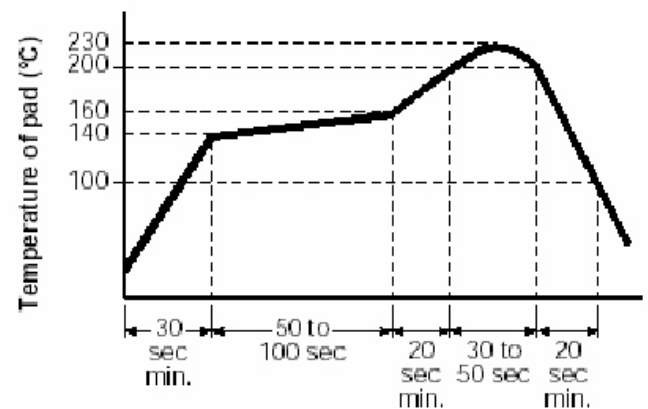
Pb free: pins/pads

## General Data

| type                           | WG                                                                                                                                    |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Frequency range                | 0.50 ~ 160.0 MHz (3.3Vdc)<br>0.50 ~ 100.0 MHz (5.0Vdc)                                                                                |
| Frequency stability over all   | ± 20ppm ~ ± 100ppm                                                                                                                    |
| Current consumption            | See table 1                                                                                                                           |
| Supply voltage V <sub>DC</sub> | 3.3V or 5.0V ± 10%                                                                                                                    |
| Temperature                    | operating -55 °C ~ +125 °C<br>storage -55 °C ~ +125 °C                                                                                |
| Output                         | rise & fall time 4-10ns<br>load max 15pF / 30pF<br>current max. 8mA<br>low level max. 0.40V<br>high level min. V <sub>DC</sub> -0.40V |
| Output enable time max.        | 10ms                                                                                                                                  |
| Output disable time max.       | 250ns                                                                                                                                 |
| Start-up time max.             | 10ms                                                                                                                                  |
| Aging                          | 1ppm/ year                                                                                                                            |
| Symmetry                       | 45~55% typ.                                                                                                                           |
| Phase jitter 12 kHz ~ 20.0 MHz | < 1.0ps RMS                                                                                                                           |

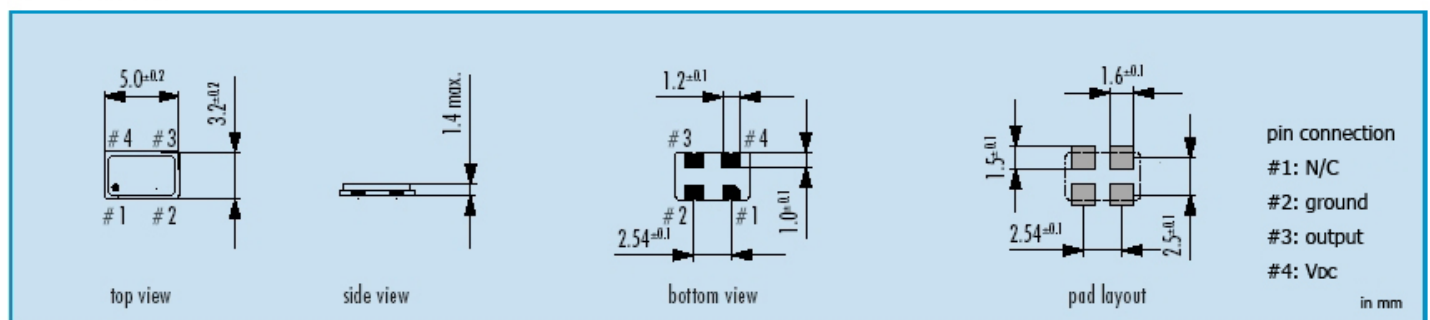
Table 1: Current Consumption max.

| Current at 15pF load (3.3Vdc) |           |      | Current at 15pF load (5.0Vdc) |          |      |
|-------------------------------|-----------|------|-------------------------------|----------|------|
| 0.5 ~                         | 19.9 MHz  | 7mA  | 0.5 ~                         | 19.9 MHz | 15mA |
| 20.0 ~                        | 49.9 MHz  | 20mA | 20.0 ~                        | 49.9 MHz | 35mA |
| 50.0 ~                        | 79.9 MHz  | 25mA | 50.0 ~                        | 79.9 MHz | 50mA |
| 80.0 ~                        | 124.9 MHz | 30mA | 80.0 ~                        | 99.9 MHz | 60mA |
| 125.0 ~                       | 160.0MHz  | 40mA |                               |          |      |



Recommended Reflow Soldering Profile

## Dimensions



## Order Information

### Part Numbering Guide

