

## STANDARD THROUGH HOLE OSCILLATOR (20.8 x 13.2 x 7.24mm)

### FEATURES:

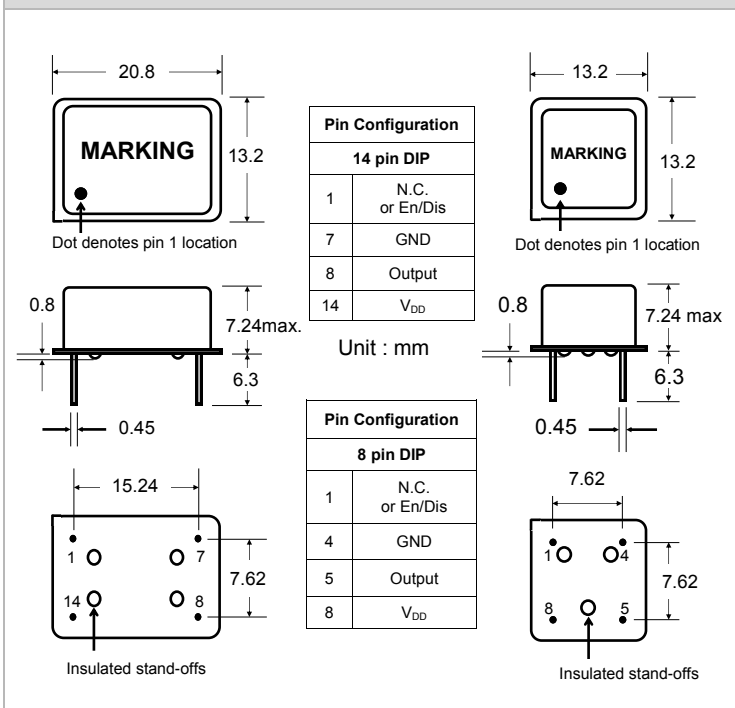
- WIDE FREQUENCY RANGES
- FAST DELIVERY
- LOW COST



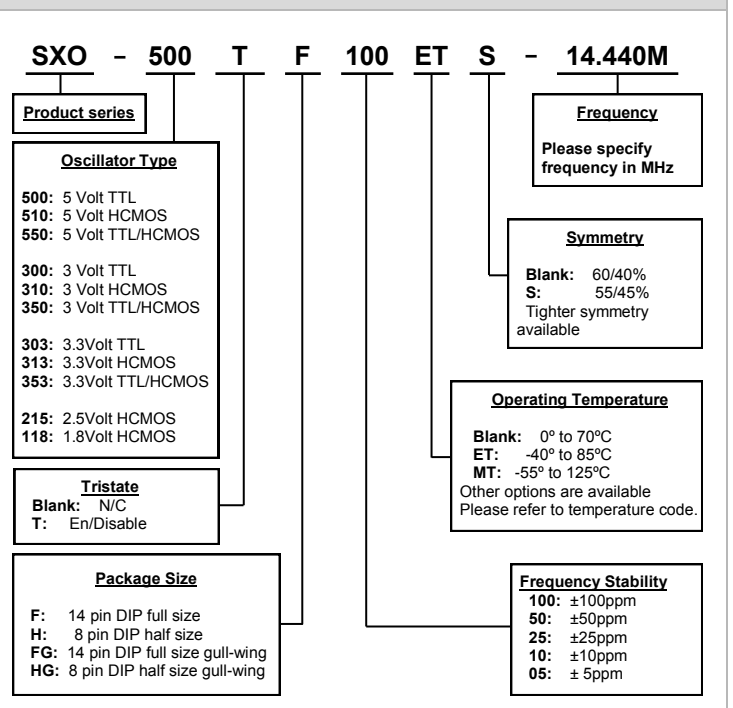
### ■ SPECIFICATION

|   |   |   |                                     |  |
|---|---|---|-------------------------------------|--|
| <b>FREQUENCY RANGE</b>                  |   | 200Hz ~ 300MHz  |                                     |  |
| <b>FREQUENCY STABILITY</b>              |   | ±5ppm ~ ±100ppm (Consult factory for tighter stability)   |                                     |  |
| <b>OPERATING TEMPERATURE RANGE</b>      |   | STD: 0°C ~ 70°C (See P/N guide for other options)   |                                     |  |
| <b>STORAGE TEMPERATURE RANGE</b>        |   | -55°C ~ 125°C   |                                     |  |
| <b>SUPPLY VOLTAGE ± 10%</b>             |   | 1.8V <sub>DC</sub> ~ 5.0V <sub>DC</sub>   |                                     |  |
| <b>SUPPLY CURRENT</b>                   |   | 10mA max. @ 10.000MHz / 15mA max. @ 30.000MHz<br>30mA max. @ 60.000MHz / 40mA max. @ 120.000MHz |                                     |  |
| <b>OUTPUT</b>                           | <b>LOGIC FAMILY</b>                     | TTL   | CMOS                                | HCMOS/TTL                                    |
|   | <b>LOAD</b>                             | 1~10 TTL  | 15pF                                | 15pF // 1~10 TTL                             |
|   | <b>LEVEL LOGIC '1' (V<sub>OH</sub>)</b> | 2.4V <sub>DC</sub> min.   | 0.9 x V <sub>DD</sub> min.          | 0.9 x V <sub>DD</sub> min.                   |
|   | <b>LEVEL LOGIC '0' (V<sub>OL</sub>)</b> | 0.4V <sub>DC</sub> max.   | 0.1 x V <sub>DD</sub> max.          | 0.1 x V <sub>DD</sub> max.                   |
|   | <b>SYMMETRY(DUTY CYCLE)</b>             | 40% / 60% (1.4V <sub>DC</sub> ) min.  | 40% / 60% (V <sub>DD</sub> /2) min. | 40% / 60% (V <sub>DD</sub> /2 and 1.4V) min. |
|   | <b>RISE AND FALL TIME (Tr/Tf)</b>       | f < 1MHz: 20nS max. f ≥ 1MHz : 8.0nS max.   |                                     |  |
|   | <b>START-UP TIME</b>                    | 10mS max.   |                                     |  |
| <b>STAND-BY VOLTAGE</b>                 | <b>ENABLE (V<sub>IH</sub>)</b>          | 0.7 x V <sub>DD</sub> ≤ V <sub>IH</sub> ≤ V <sub>DD</sub> or N/C                                |                                     |  |
|   | <b>DISABLE (V<sub>IL</sub>)</b>         | V <sub>IL</sub> ≤ 0.3 V <sub>DD</sub>   |                                     |  |
| <b>AGING @ 25°C ± 3°C</b>               |   | ±3.0ppm / 1 <sup>st</sup> year max.   |                                     |  |
| <b>PHASE JITTER RMS (12kHz ~ 20MHz)</b> |   | 1pS max. (Fundamental), 3pS max. (PLL)  |                                     |  |

### ■ PACKAGE DIMENSIONS



### ■ PART NUMBERING GUIDE



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