

VCXO - 251B

[MODEL]

VCXO - 251B (PLL)
: HCMOS or TTL level
SMD crystal oscillator

[FEATURES]

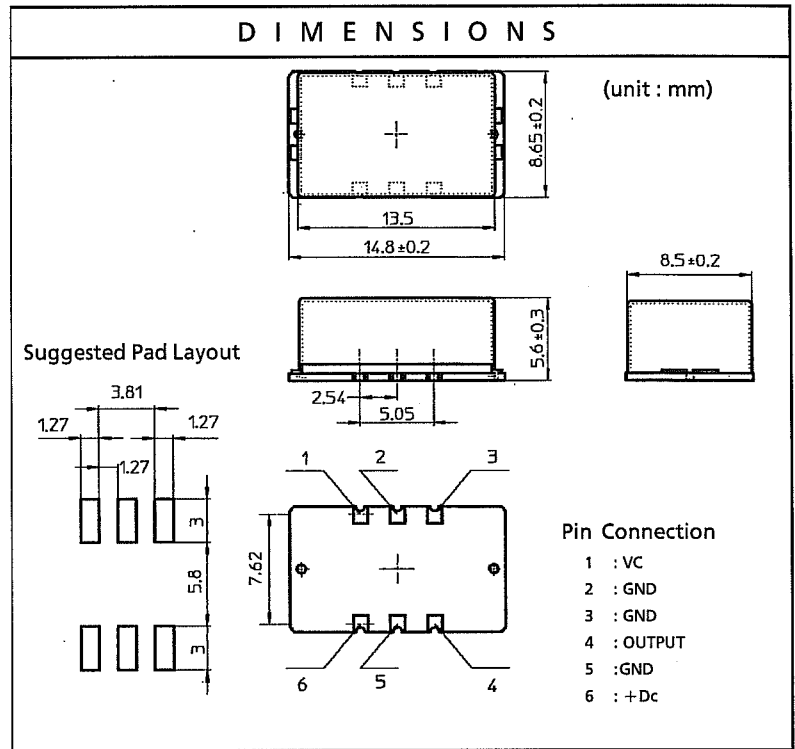
- "Small Size" as small as 0.72cc.
(14.8×8.65×5.7 mm)
- All-metal welded package.
- Using welded crystal.
- Hybrid-IC circuit construction.
- HCMOS compatible output.
- TTL compatible output.

[TYPICAL APPLICATIONS]

- Digital switching system

[STANDARD FREQUENCIES]

- 54.000MHz , 51.840MHz
- 102.40MHz



| MODEL | VCXO-251B |
|------------------------------|--|
| Frequency range | 40 MHz to 120 MHz |
| Frequency stability | $\pm 45 \times 10^{-6}$ max. / $\pm 0^\circ\text{C}$ to $+70^\circ\text{C}$ |
| Operable temperature range | $\pm 0^\circ\text{C}$ to $+70^\circ\text{C}$ |
| Storage temperature | -20°C to $+85^\circ\text{C}$ |
| Frequency aging | $\pm 5 \times 10^{-6}$ max. / year |
| Frequency deviation | $\pm 75 \times 10^{-6}$ min. / $+2.5\text{ V} \pm 2.5\text{ V}$ (Positive) |
| Frequency tuning voltage | $+2.5\text{ V} \pm 0.5\text{ V}$ (at $+25^\circ\text{C}$) |
| Power supply voltage | $V_{cc} = +5.0\text{ V} \pm 0.25\text{ V}$ |
| Power supply current | 45mA max. |
| Output load | LS TTL 2 or 15 pF |
| Output level (CMOS) (TTL) | VOH: $+0.9V_{cc}$ min. / VOL: $+0.1V_{cc}$ max. VOH: $+2.5\text{ V}$ min. / VOL: $+0.5\text{ V}$ max. |
| Output symmetry | 40% to 60% (at $+2.5\text{VDC}$ or $+1.4\text{ VDC}$) |
| Rise time / Fall time | 5 ns max. / 5 ns max. |
| Jitter 1 Sigma | 2% max. |
| Vibration | 10Hz to 55Hz Amplitude 1mm cycle 1 minute. 3 directions. 2 hours each |
| Shock | 1000 G |
| Humidity | 60°C 95% / RH 1000 hours |
| Weight | 1.5 gr |

- ※ If specifications do not meet your requirements.
We will design a unit to your requirements.
- ※ All specifications and details published are subject to change without notice.