

VCXO UNIT WITH HCMOS OUTPUT IN SMD 9.0x14.0MM PCB BASE PACKAGE.

#### PRODUCT FEATURES

- Small dimensions 9.0x14.0 with 4 or 6 solder pads.
- Tight stabilities over temperature range.
- RoHS compliant, LEAD-FREE, HALOGEN-FREE and REACH compliant.

#### APPLICATIONS

- WiMAX / WLAN / Ethernet
- DSL / VoIP
- Cable modem
- Optical communication module

#### PRODUCT PHOTO (NOT IN SCALE)

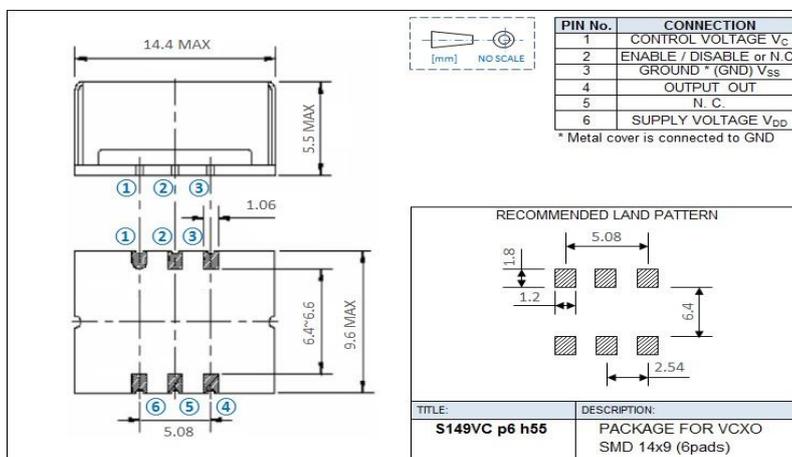


#### PRODUCT SPECIFICATIONS

| PARAMETER                   | SUPPLY VOLTAGE                             |       |         | REMARKS                            |
|-----------------------------|--|-------|---------|------------------------------------|
|                             | 2.5V                                       | 3.3V  | 5.0V    |                                    |
| Frequency range             | 15 ~ 156.250MHz                            |       |         | --                                 |
| Frequency stability         | ±20ppm / ±25ppm / ±30ppm / ±50ppm          |       |         | See note below                     |
| Operating temperature range | -10 to +60°C / -20 to +70°C / -40 to +85°C |       |         | Options available                  |
| Aging first year            | ±3.0ppm                                    |       |         | @+25°C                             |
| Frequency pulling range     | ±45ppm ~ ±100ppm                           |       |         | Depending on frequency             |
| Supply current              | ---  | ---   | 10mA    | 1.5~15MHz @15pF                    |
|                             | 40mA                                       | 50mA  | 50mA    | ≥15~80MHz @15pF                    |
|                             | 70mA                                       | 80mA  | 40~90mA | ≥80MHz @15pF                       |
| Output waveform and load    | LVCMOS 15pF                                |       |         | 30pF optional                      |
| Output voltage level HIGH   | 2.25V                                      | 2.97V | 4.5V    | Minimum                            |
| Output voltage level LOW    | 0.25V                                      | 0.33V | 0.5V    | Maximum                            |
| Rise and Fall times         | 4ns  | 4ns   | 5ns     | 1~50MHz @10~90% of V <sub>CC</sub> |
|                             | 2ns  | 2ns   | 3ns     | ≥50MHz @10~90% of V <sub>CC</sub>  |
| Symmetry (duty cycle)       | 40~60% or 45~55%                           |       |         | @ 50%V <sub>CC</sub>               |
| Phase jitter RMS            | <1ps or <1.5ps                             |       |         | 12kHz≤F <sub>j</sub> ≤20MHz        |

Note: stability includes frequency deviations at +25°C, over temperature range, due to supply voltage changes, output load changes, shock and vibration.

#### PACKAGE OUTLINE / DIMENSIONS



#### PACKAGING INFORMATION

- Tape & Reel compliant to EIA-481.
- Embossed carrier width 24mm.
- Component pitch in carrier 12mm.
- Reel diameter 330mm.
- QTY per reel: 250pcs

#### RECOMMENDED REFLOW PROFILE

