Hang Crystal International

VOLTAGE CONTROLLED CRYSTAL OSCILLATOR

V714H4

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.

PRODUCT PHOTO (NOT IN SCALE)



APPLICATIONS

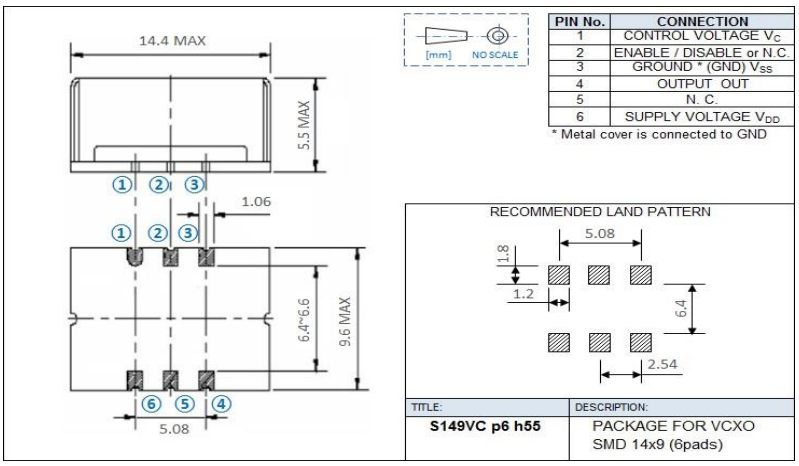
- WiMAX / WLAN / Ethernet
- DSL / VoIP
- Cable modem
- Optical communication module

PRODUCT SPECIFICATIONS

PARAMETER	SUPPLY VOLTAGE 2.5V	3.3V	5.0V	REMARKS
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_{CC}
	2ns	2ns	3ns	≥50MHz @10~90% of V_{CC}
Symmetry (duty cycle)	40~60% or 45~55%			@ 50%V_{CC}
Phase jitter RMS	<1ps or <1.5ps			12kHz≤Fj≤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

