

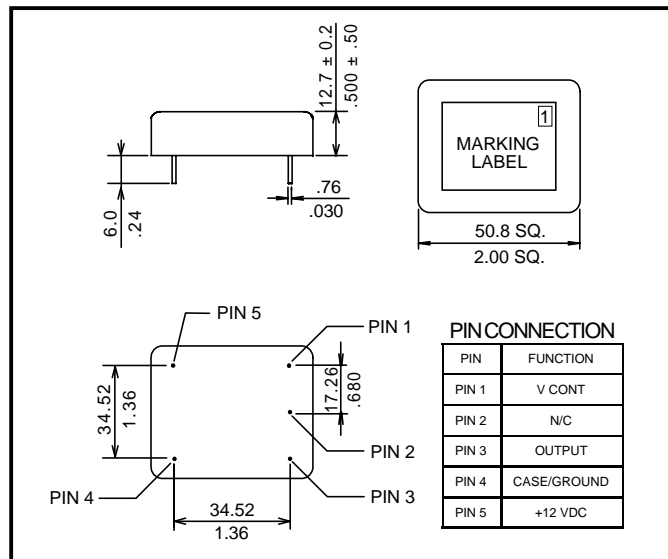
- **FEATURES**
  - PLL DESIGN
  - TOLERANCE AND STABILITY TO  $\pm 10$  PPM
  - CUSTOM SPECIFICATIONS AVAILABLE

**SERIES VH6131**  
**2488.32 MHz**

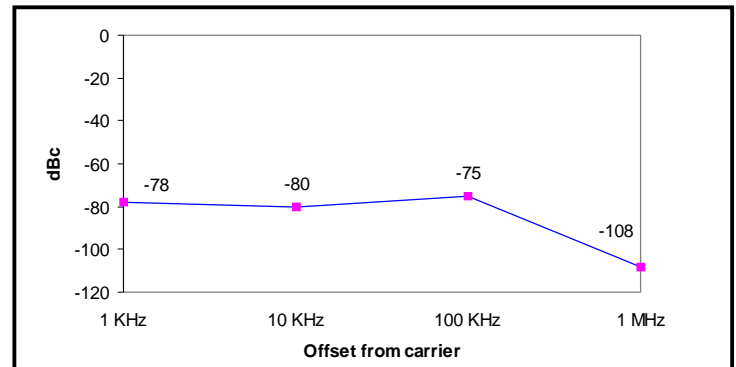
- **SPECIFICATIONS**

NOMINAL FREQUENCY	2488.32 MHz
FREQUENCY STABILITY OVER TEMPERATURE RANGE (REFERENCED TO 25°C)	$\pm 25$ PPM MAX OVER 0°C TO +70°C AT VC = +2.5 VDC AND STANDARD LOAD
OPERATING TEMPERATURE RANGE	0°C TO +70°C
STORAGE TEMPERATURE RANGE	-40°C TO +85°C
AGING CHARACTERISTICS	$\pm 5.0$ PPM MAX FOR THE FIRST YEAR AND $\pm 10$ PPM MAX FOR 10 YEARS
OUTPUT WAVEFORM	SINEWAVE OUTPUT LEVEL: 0 dBm HARMONIC SUPPRESSION: -10 dBc TYPICAL REFERENCE SUPPRESSION: -50 dBc MIN AT $\pm 9.72$ MHz AWAY FROM CARRIER
LOAD	50 OHMS
FREQUENCY STABILITY OVER LOAD VARIATION	$\pm 3.0$ PPM MAX FOR 10% VARIATION AT VC = +2.5 VDC, VCC = +12.0 VDC AT 25°C
SUPPLY VOLTAGE	+7.0 TO +12.0 VDC $\pm 5\%$
FREQUENCY STABILITY OVER SUPPLY VOLTAGE VARIATION	$\pm 1.0$ PPM MAX FOR 5% VARIATION AT VC = +2.5 VDC AND STANDARD LOAD AT 25°C
SUPPLY CURRENT	100 mA MAX AT VC = +2.5 VDC, VCC = +12.0 VDC AND STANDARD LOAD AT 25°C
FREQUENCY ADJUSTMENT	$\pm 50$ PPM MIN OVER CONTROL VOLTAGE RANGE AT VCC = +5.0 V AND STANDARD LOAD AT 25°C
NOMINAL CONTROL VOLTAGE (VC)	+2.5 VDC
SETTABILITY AT Vfo $\uparrow$	+2.5 VDC $\pm 0.5$ VDC
CONTROL VOLTAGE RANGE	+0.5 TO +4.5 VDC
LINEARITY	$\pm 15\%$ MAX OF BEST STRAIGHT LINE FIT
SLOPE	POSITIVE
MODULATION FREQUENCY BANDWIDTH	10 KHz (-3dB) MIN
INPUT IMPEDANCE	50 KOHM MIN
PHASE NOISE (TYPICAL)	SEE GRAPH OF PHASE NOISE CHARACTERISTICS

- **OUTLINE DRAWING**



- **PHASE NOISE CHARACTERISTICS**



- **PART NUMBERING SYSTEM**

SERIES	TEMPERATURE CODE	FREQUENCY ADJUSTMENT	FREQUENCY
VH6131*	LZ	30	2488.32 MHz

EXAMPLE:  
VH6131\*-LZ-30-2488.32 MHz