



HCMOS/TTL COMPATIBLE VCXO IN 14 PIN DIP PACKAGE- VC14 Series

FEATURES

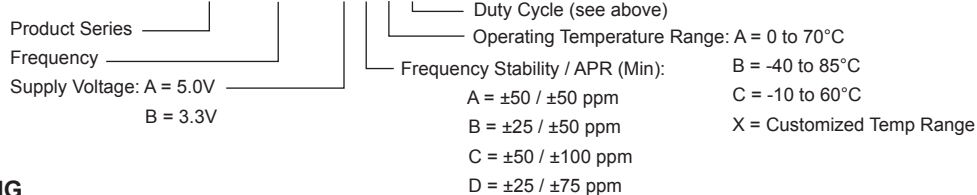
- RoHS Compliant (Pb-Free), Wide Frequency Pulling Range
- Very Low Phase Jitter with Fundamental Crystal Design
- Commercial or Industrial Temperature Range, 5 V or 3.3 V Option
- Hermetically Sealed 14-pin DIP Package with Industry Standard Lead Spacing

SPECIFICATIONS

Frequency Range	1 MHz to 45 MHz
Input Voltage (Vcc)	A = +5 VDC \pm 5%; B = +3.3 VDC \pm 5%
Input Current	40 mA Maximum, depending on frequency and output load
Control Voltage (Vc)	+2.5V \pm 2.0V for 5.0V part; +1.65V \pm 1.5V for 3.3V part
Storage Temperature	-55°C to 125°C
Frequency Stability / APR (Min)	A = \pm 50 / \pm 50 ppm; B = \pm 25 / \pm 50 ppm; C = \pm 50 / \pm 100 ppm
Temperature Range	A = 0°C to 70°C; B = -40°C to 85°C; C = -10°C to 60°C
Standard Stability / Pullability	AA = \pm 50 ppm / 0°C to 70°C, Absolute pull range (APR): \pm 50 ppm Minimum
Duty Cycle	0 = No Tristate 60/40% symmetry; 2 = No Tristate 55/45% symmetry 4 = No Tristate 52.5/47.5% symmetry
Output Load	HCMOS: drive up to 15 pF load; TTL: drive up to 10 TTL gates
Logic "1" / Logic "0" Level	0.9Vcc Minimum / 0.1Vcc Maximum
Rise/Fall Time (Tr/Tf)	10 ns Maximum at 20% to 80% Vp-p
Start-up time	10 ms Maximum
Phase Jitter (RMS, 1 Sigma)	1 ps Maximum for fj > 1kHz; 0.3 ps Typical for fj = 12KHz to 20MHz
Modulation Bandwidth	10 kHz Minimum at -3 dB
Linearity / Slope	\pm 10% Maximum of best straight line fit / Positive
Input Impedance	10 kOhms Minimum
Setability at Fnom, 25°C	+2.5V \pm 0.5V for 5.0V part; +1.65V \pm 0.4V for 3.3V part

Creating a Part Number

VC14-27M000-B A A 2



OUTLINE DRAWING

