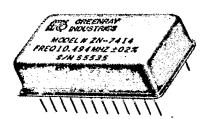


VOLTAGE CONTROLLED OSCILLATORS

40 kHz to 25 MHz Square Wave V.C.X.O.



MODEL ZN-7414

SPECIFICATIONS:

Center frequency range: 40 kHz to 25 MHz

Frequency control ranges: ±.01%, ±.03% and ±.05% (minimum)

Frequency stability over temperature range:

±.002% with ±.01% control range

Model (A)

±.003% with ±.03% control range

Model (B)

 $\pm .004\%$ with $\pm .05\%$ control range Model (C)

Temperature range: 0 to +70°C

Output voltage: 0 ±.4V to +2.4V minimum

Output: Square wave, will drive up to 10 TTL

loads

Input voltage: +5V D.C. ±5%

Input current: 10.1 MHz to 20.0 MHz

25 ma. typical 40.0 kHz to 10.0 MHz

55 ma. typical

Control voltage: 0 ±4V (D.C. coupled with a maximum modulation rate of 15 kHz) See Note 1.

Modulation input load: 1000 ohms

Linearity: ±10% or better

Negative slope

Size: $1.4 \times .8 \times 35''$ (L-W-H) $35.6 \times 20.3 \times 8.9 \text{ mm}$ 24 pin DIP mounting

Sealed metal case

NOTE (1) Center frequency will occur at 0V ±1V control voltage.

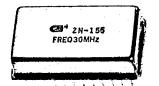
NOTE: Option "Z", this VCXO can be supplied with an external frequency adjust capability. Frequency adjustment is accomplished with an external 50K ohm potentiometer. Set center frequency with A.F.C. voltage equal to zero VDC input. Specify option "Z" after the model number.

ORDERING INFORMATION:

Specify Model ZN-7414A for ±.01% min. swing.

Specify Model ZN-7414B for ±.03% min. swing. Specify Model ZN-7414C for ±.05% min. swina.

HYBRID VCXO 4 MHz to 90 MHz SINE WAVE



MODEL ZN-155

SPECIFICATIONS:

Center Frequency Range: 4 MHz to 90 MHz

Frequency Control Ranges:

±.01%, ±.03%, or ±.05% (minimum)

Frequency Stability Over Temperature Range:

±.002% with ±.01% swing

±.003% with ±.03% swing

±.004% with ±.05% swing

Temperature Range: -30°C to +85°C

Output: Sine wave, Harmonics & Sub-Harmonics -20 dB minimum

Output Power: into a 50 ohm load

4 MHz to 30 MHz =

+10 dBm minimum 30.001 MHz to 60 MHz =

+5 dBm minimum

60.001 MHz to 90 MHz = +3 dBm minimum

Input Voltage: +15 VDC ±5%

Input Current: 40 ma maximum

Control Voltage: 0 ±5V (DC coupled with a maximum modulation rate of 15 KHz) Center Frequency will occur at OV ±1V

Control Voltage*

Modulation Input Load: 1000 ohms minimum

Linearity: ±10% or better

Negative Slope

Hermetically Sealed Metal Case

Size: $1.4 \times .8 \times .35$ " (L-W-H) $35.6 \times 20.3 \times 8.9 \text{ mm}$

24 Pin DIP Mounting

*NOTE: Option "Z", this VCXO can be supplied with an external frequency adjust capability. Frequency adjustment is accomplished with an external 50K ohm potentiometer. Set center frequency with the AFC voltage equal to zero VDC input. For this option specify a "Z" after the model number (EX. ZN-155AZ).

ORDERING INFORMATION:

Specify Model ZN-155A for \pm .01% swing Specify Model ZN-155B for \pm .03% swing Specify Model ZN-155C for ±.05% swing