



VX461C Sixteen Channel Frequency Source

The VX461C is a 16 Channel Frequency Source that can generate 16 independent square wave forms at frequencies up to 10Mhz. Each channel provides for phase continuous switching between consecutive programmed frequency values allowing on-the-fly frequency changes with no transients or discontinuities during range and period changes. All source outputs are available through a 96 pint DIN type connector on the front panel.

Specifications:

Phase Continuous Frequency Switching:

Amplitude and phase of "old" and "new" programmed frequency values are equal.

Source Period:

Range 100ns to 65.5s
Accuracy ±15 ns

Source Frequency Range:

15.26mhz to 10Mhz

Programming Resolution:

| Frequency Range | Resolution |
|---------------------|------------|
| 305.2 Hz to 10 Mhz | 50 ns |
| 152.6 Hz to 5 Mhz | 100 ns |
| 15.26 Hz to 500 Khz | 1 µs |
| 1.526 Hz to 50 Khz | 10 µs |
| 152.6 mHz to 5 Khz | 100 µs |
| 15.26 mHz to 500 Hz | 1 ms |

Source Output Characteristics:

Amplitude Differential CMOS
Transition Time 5ns typical

Output Drivers have the following electrical characteristics:

Driver Type 74HCT245
 V_{OH} 4.9V – (150 x I_{LOAD}) V
 V_{OL} 0.1V + (150 x I_{LOAD}) V
 I_{OH} -30mA max.
 I_{OL} 30mA max.

Note: All outputs have 150Ω series current limiting resistors.

Temperature:

Operating 0°C to +50°C
Storage -40°C to 65°C

Power: +5V @ 1.5A

Ordering Information:

Part Number 11026700-0001

VXIbus Compliance

Complies with ANSI/IEEE Std. 1014-1987 and VXIbus Rev 1.4.

A16:D16 DTB Slave

Register Based

No SYSFAIL

No Interrupts

IACKIN tied to IACKOUT

BRX tied to BGX

Form Factor: Size C

Built in test via feedback registers

Applications

- Square Wave Generators
- Automated Test
- Hardware-in-the-Loop Simulation
- Power/Control System Simulation