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## Pulse Generator Module Model VX462B

The VX462B is a 20 MHz pulse generator with additional 40 MHz square wave capability in the B-size VXIbus format. Its operating modes are Normal, Triggered, Gated, Delayed Pulse and Double Pulse (second pulse occurs "delay" time after Trigger Out). Front panel BNC connectors are provided for Pulse Out, Trigger Out and Trigger (& Gate) In. LED indicators are provided for MODID and RUN. The unit is jumper selectable for low output impedance providing  $\pm 10$  V into a 50  $\Omega$  load. Alternatively it can be configured for 50  $\Omega$  output impedance that provides better matching for 50  $\Omega$  loads at drive levels up to  $\pm 5$  V.



### SPECIFICATIONS

#### Pulse Repetition Interval

Range: 50 ns to 1 sec  
Resolution: 25ns min, 10 bits  
Accuracy:  $\pm 15$  ns

#### Pulse Width

Range: 25 ns to 1 sec  
Resolution: 25 ns min, 10 bits  
Accuracy:  $\pm 15$  ns

#### Output Characteristics

Amplitude (Lo-z):  $\pm 10$  V into 50  $\Omega$   
Amplitude (50  $\Omega$ ):  $\pm 5$  V into 50  $\Omega$   
Accuracy:  $\pm 1$  %Pgm value  
 $\pm 3$  % of amplitude,  $\pm 100$  mv  
Transition Time (@ 5V): 5 ns typical (fixed)  
Impedance: 2-5  $\Omega$  or 50  $\Omega$  (selectable)

#### Delay Timing (from Trig Out)

Range: 25 ns to 1 sec  
Resolution: 25 ns min, 10 bits  
Accuracy:  $\pm 15$  ns

#### Trigger Out

TTL, 10 gate drive capability

#### Trigger/Gate In

TTL

#### Temperature

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

#### Power

+5 V @ 3 A  
+12 V @ 0.4 A

#### VXIbus Compliance

Complies with ANSI / IEEE Std. 1014-1987 IEC 821, IEC 822 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 B  
Built in test via feedback registers

#### Applications

Pulse generator  
Square wave generator  
Clock source  
Delayed trigger

#### Ordering Information

Part Number: 11026355-0001