

# OnSpec Oscillators



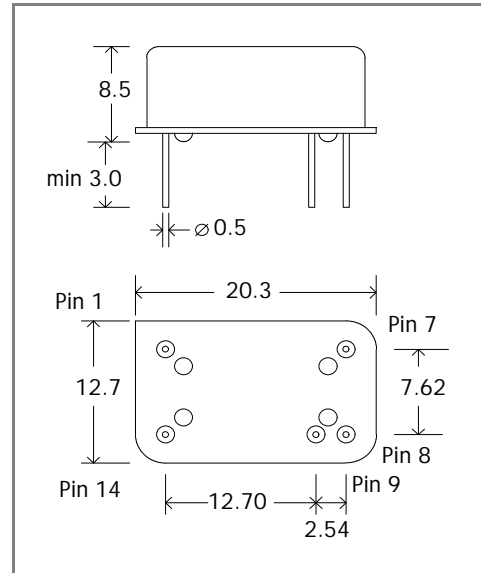
## 100k series PECL VCXO DIL-14

Positive Emitter Coupled Logic (PECL),  
100k series  
Voltage Controlled Oscillators up to 155 MHz

### 100k Series PECL Output

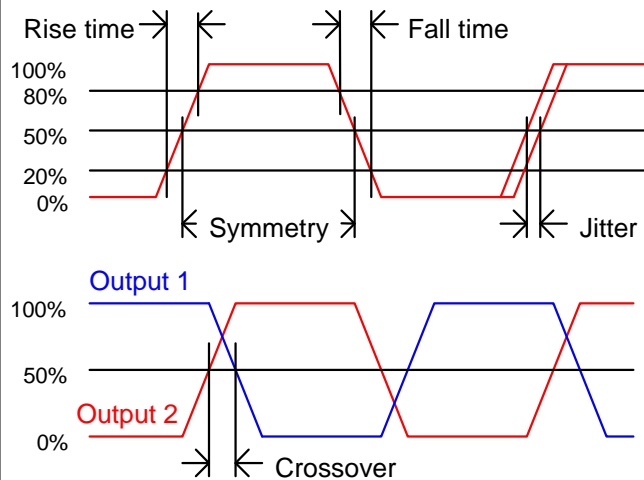
Positive supply,  
Single or Complimentary output

3.3 Volts Supply also Available



Frequency	10 .. 155 MHz
Pulling Range	± 100 ppm
Control Voltage	0.5 V - 5.0 V
Overall Stability	± 30 ppm
Output	<b>100k series PECL</b>
$V_{OH}$	3.965 V .. 4.13 V *
$V_{OL}$	3.17 V .. 3.38 V *
Temperature	0 .. +85°C
Rise & Fall times 20%..80%	1.2 ns max
Symmetry	55/45..45/55%
Crossover	500ps max
Jitter	500ps max
Supply Voltage ( $V_{CC}$ )	4.2 - 5.5 V
Supply Current	40mA max

### Timing Waveforms



The oscillator characteristics are specified with the outputs terminated with 50Ω to 3.0 V.\*

### Specifications and Connections

	Pin 1	Pin 7	Pin 8	Pin 9	Pin 14
OSO-DVP-B30C	Control	Ground	Output	No Pin	+ $V_{CC}$
OSO-DVP-B30D	Control	Ground	Output 1	Output 2	+ $V_{CC}$

\* These values are for  $V_{CC} = 5.0V$ .  
Level Specifications will vary 1:1  
with VCC.

The ground pin is connected to the case.

## OnSpec Oscillators Limited

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