

# PLETRONICS

## Voltage Controlled Crystal Oscillators

RoHS 6/6 Compliant

<p><b>VHD6 CMOS Series</b> LCC Ceramic Package 3.2 x 5.0 x 1.35 mm ◆ Fundamental Mode Crystal</p> 	<p><b>VHA6 CMOS Series</b> LCC Ceramic Package 5.0 x 7.0 x 1.9 mm ◆ Fundamental Mode Crystal</p> 
<p><b>VLU7 LVDS Series</b> LCC Ceramic Package 5.0 x 7.0 x 2.97 mm Supply Voltage 3.3 Volt Only ◆ Output frequency is synthesized from fundamental quartz crystal ◆ +/- 50PPM APR</p> 	<p><b>VPU7 PECL Series</b> LCC Ceramic Package 5.0 x 7.0 x 2.97mm Supply Voltage 3.3 Volt Only ◆ Output frequency is synthesized from fundamental quartz crystal ◆ +/- 50PPM APR</p> 
<p><b>VLA6 LVDS Series</b> LCC Ceramic Package 5.0 x 7.0 x 1.9 mm ◆ Fundamental Mode Crystal</p> 	<p><b>VPA6 PECL Series</b> LCC Ceramic Package 5.0 x 7.0 x 1.9 mm ◆ Fundamental Mode Crystal</p> 
<p><b>VLD6 LVDS Series</b> LCC Ceramic Package 3.2 x 5.0 x 1.35 mm ◆ Fundamental Mode Crystal</p> 	<p><b>VPD6 PECL Series</b> LCC Ceramic Package 3.2 x 5.0 x 1.35 mm ◆ Fundamental Mode Crystal</p> 

Pletronics Part Series	Package Size	Frequency Range (MHz)	Tr/Tf Maximum (nS)	Duty Cycle %	Typical RMS Jitter (pS)		Current with Load (ma)	Supply Voltage	
					12KHz-20MHz	10Hz-20MHz		2.5V	3.3V
<b>VHD6</b>	3.2x5 mm	10-106	6.0	45-55	0.6		8.0	*	*
<b>VHA6</b>	5x7 mm	1.7-108	6.0	45-55	0.6		8.0	*	*
<b>VLU7</b>	5x7 mm	10.9-670	0.3	47-53	0.6	3.2	90		*
<b>VPU7</b>	5x7 mm	10.9-1,170	0.3	47-53	0.8	3.2	110		*
<b>VLA6</b>	5x7 mm	25-180	0.7	45-55			40		*
<b>VLD6</b>	3.2x5 mm	25-180	0.7	45-55			40		*
<b>VPA6</b>	5x7 mm	25-180	1.0	45-55			90		*
<b>VPD6</b>	3.2x5 mm	25-180	1.0	45-55			90		*

### FEATURES

- ◆ Excellent phase noise characteristics
- ◆ All have Tri-State with Power Standby modes
- ◆ Temp range: - 10° to +70°C Standard, -40° to +85°C Extended
- ◆ Available Tolerances: +/- 20PPM, +/- 25PPM and +/- 50PPM
- ◆ Most common frequencies in stock

### APPLICATIONS

- ◆ Ideal reference clocks for high-speed applications requiring low jitter, including:
  - 1/10 Gigabit Ethernet
  - 2/4/10G Fibre Channel
  - Server & Storage platforms
  - SONET/SDH line cards.