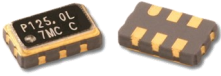
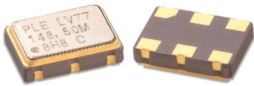
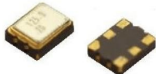
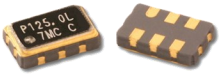


# PLETRONICS

RoHS 6/6 Compliant

Crystal Controlled Oscillators  
**LVDS OUTPUT**

<p><b>LV44J Series</b> 2.5 x 3.2 x 1.0 mm LCC Ceramic Package</p> <ul style="list-style-type: none"> <li>◆ 3rd Overtone crystal</li> <li>◆ Low Jitter</li> <li>◆ Enable/Disable function on pad 1</li> </ul>	<p><b>APPLICATIONS:</b> Ideal reference clocks for high-speed applications requiring low jitter, including:</p> <ul style="list-style-type: none"> <li>◆ 10/40/100 Gigabit Ethernet</li> <li>◆ 16-32G Fibre Channel</li> <li>◆ 100G/400G Optical Transport Networks</li> <li>◆ SONET/SDH linecards.</li> </ul>
<p><b>LV55J Series</b> 3.2 x 5.0 x 1.35 mm LCC Ceramic Package</p> <ul style="list-style-type: none"> <li>◆ 3rd Overtone crystal</li> <li>◆ Low Jitter</li> <li>◆ Enable/Disable function on pad 1</li> </ul> 	<p><b>LV77J Series</b> 5.0 x 7.0 x 1.7 mm LCC Ceramic Package</p> <ul style="list-style-type: none"> <li>◆ 3rd Overtone crystal</li> <li>◆ Low Jitter</li> <li>◆ Enable/Disable function on pad 1</li> </ul> 
<p><b>LV55F &amp; LV55G Series</b> 3.2 x 5.0 x 1.35 mm LCC Ceramic Package</p> <ul style="list-style-type: none"> <li>◆ LV55F is Fundamental crystal</li> <li>◆ LV55G is 3rd Overtone crystal</li> <li>◆ Improved rise and fall times</li> <li>◆ Enable/Disable function on pad 1</li> </ul> 	<p><b>LV77F &amp; LV77G Series</b> 5.0 x 7.0 x 1.7 mm LCC Ceramic Package</p> <ul style="list-style-type: none"> <li>◆ LV77F is Fundamental crystal</li> <li>◆ LV77G is 3rd Overtone crystal</li> <li>◆ Improved rise and fall times</li> <li>◆ Enable/Disable function on pad 1</li> </ul> 
<p><b>LV99D Series</b> 5.0 x 7.0 x 1.7 mm LCC Ceramic Package 3.3 Volt Only</p> <ul style="list-style-type: none"> <li>◆ Advanced Synthesized design</li> <li>◆ uses a fundamental mode crystal</li> <li>◆ Frequencies from 10MHz to over 600MHz</li> </ul> 	<p><b>LV44F and LV44G Series</b> 2.5x 3.2 x 1.0 mm LCC Ceramic Package</p> <ul style="list-style-type: none"> <li>◆ LV44F is Fundamental crystal</li> <li>◆ LV44G is 3rd Overtone crystal</li> <li>◆ Improved rise and fall times</li> <li>◆ Enable/Disable function on pad 1</li> </ul> 
<p><b>LV55D Series (Standard)</b> 3.2 x 5.0 x 1.35 mm LCC Ceramic Package</p> <ul style="list-style-type: none"> <li>◆ 3rd Overtone crystal</li> <li>◆ Enable/Disable function on pad 1</li> </ul> 	<p><b>LV77D Series (Standard)</b> 5.0 x 7.0 x 1.7 mm LCC Ceramic Package</p> <ul style="list-style-type: none"> <li>◆ 3rd Overtone crystal</li> <li>◆ Enable/Disable function on pad 1</li> </ul> 

Pletronics Part Series	Crystal Mode	Frequency Range (MHz)	Tr/Tf Maximum (ps)	Duty Cycle %	Typical RMS Jitter (ps)		Current with Load (ma)	Supply Voltage	
					12KHz-20MHz	10Hz-20MHz		2.5V	3.3V
<b>LV44/55/77J</b>	3rd OT	100-175	500	45-55	0.1		60	✓	✓
<b>LV44/55/77F</b>	Fund.	13-110	400	45-55	0.4	1.0	27	✓	✓
<b>LV44/55/77G</b>	3rd OT	35-220	400	45-55	0.4	0.9	40	✓	✓
<b>LV99D</b>	Fund. Synth.	10.9-670	300	47-53	0.6	2.1	90		✓
<b>LV55/77D</b>	3rd OT	80-325	900	45-55	0.4	2.6	66	✓	✓

## FEATURES

- ◆ Excellent phase noise characteristics
- ◆ Temp range: - 10° to +70°C Standard, -40° to +85°C Extended
- ◆ Available Tolerances: +/- 20PPM, +/- 25PPM and +/- 50PPM
- ◆ Most common frequencies in stock
- ◆ Jitter typical at 156.25 MHz

# PLETRONICS

RoHS 6/6 Compliant

## Crystal Controlled Oscillators PECL OUTPUT

<b>PE44J Series</b> LCC Ceramic Package ♦ 3rd Overtone crystal ♦ Low Jitter ♦ Enable/Disable function on pad 1 2.5 x 3.2 x 1.0 mm	<b>APPLICATIONS:</b> Ideal reference clocks for high-speed applications requiring low jitter, including: ♦ 10/40/100 Gigabit Ethernet ♦ 16-32G Fibre Channel ♦ 100G-400G Optical Transport Networks ♦ SONET/SDH linecards
<b>PE55J Series</b> LCC Ceramic Package ♦ 3rd Overtone crystal ♦ Low Jitter ♦ Enable/Disable function on pad 1 3.2 x 5.0 x 1.35 mm	<b>PE77J Series</b> LCC Ceramic Package ♦ 3rd Overtone crystal ♦ Low Jitter ♦ Enable/Disable function on pad 1 5.0 x 7.0 x 1.7 mm
<b>PE55F &amp; PE55G Series</b> LCC Ceramic Package ♦ PE55F is Fundamental crystal ♦ PE55G is 3rd Overtone crystal ♦ Improved rise and fall times ♦ Enable/Disable function on pad 1 3.2 x 5.0 x 1.35 mm	<b>PE77F &amp; PE77G Series</b> LCC Ceramic Package ♦ PE77F is Fundamental crystal ♦ PE77G is 3rd Overtone crystal ♦ Improved rise and fall times ♦ Enable/Disable function on pad 1 5.0 x 7.0 x 1.7 mm
<b>PE99D Series</b> LCC Ceramic Package 3.3 Volt Only ♦ Advanced Synthesized design ♦ uses a fundamental mode crystal ♦ Frequencies from 10MHz to over 600MHz 5.0 x 7.0 x 1.7 mm	<b>PE44F and PE44G Series</b> LCC Ceramic Package ♦ PE44F is Fundamental crystal ♦ PE44G is 3rd Overtone crystal ♦ Improved rise and fall times ♦ Enable/Disable function on pad 1 2.5x 3.2 x 1.0 mm
<b>PE55D Series (Standard)</b> LCC Ceramic Package ♦ 3rd Overtone crystal ♦ Enable/Disable function on pad 1 3.2 x 5.0 x 1.35 mm	<b>PE77D Series (Standard)</b> LCC Ceramic Package ♦ 3rd Overtone crystal ♦ Enable/Disable function on pad 1 5.0 x 7.0 x 1.7 mm

Pletronics Part Series	Crystal Mode	Frequency Range (MHz)	Tr/Tf Maximum (pS)	Duty Cycle %	Typical RMS Jitter (pS)		Current with Load (ma)	Supply Voltage	
					12KHz-20MHz	10Hz-20MHz		2.5V	3.3V
<b>PE44/55/77J</b>	3rd OT	100-175	500	45-55	0.1		60	✓	✓
<b>PE44/55/77F</b>	Fund.	13-110	400	45-55	0.9	1.0	27	✓	✓
<b>PE44/55/77G</b>	3rd OT	35-220	400	45-55	0.4	0.9	40	✓	✓
<b>PE99D</b>	Fund. Synth.	10.9-766 876-1,170	300	47-53	0.6	2.1	90		✓
<b>PE55/77D</b>	3rd OT	40-250	700	45-55	0.4	2.6	90	✓	✓

### FEATURES

- ♦ Excellent phase noise characteristics
- ♦ Temp range: - 10° to +70°C Standard, -40° to +85°C Extended
- ♦ Available Tolerances: +/- 20PPM, +/- 25PPM and +/- 50PPM
- ♦ Most common frequencies in stock
- ♦ Jitter typical at 156.25 MHz