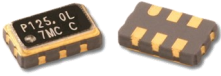
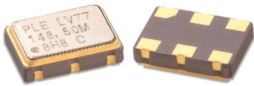
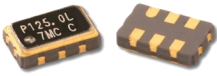
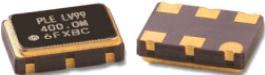
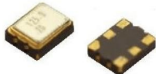
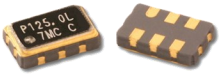
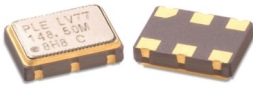


PLETRONICS

RoHS 6/6 Compliant

Crystal Controlled Oscillators
LVDS OUTPUT

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

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
LV44/55/77J	3rd OT	100-175	500	45-55	0.1		60	✓	✓
LV44/55/77F	Fund.	13-110	400	45-55	0.4	1.0	27	✓	✓
LV44/55/77G	3rd OT	35-220	400	45-55	0.4	0.9	40	✓	✓
LV99D	Fund. Synth.	10.9-670	300	47-53	0.6	2.1	90		✓
LV55/77D	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

PE44J Series LCC Ceramic Package ♦ 3rd Overtone crystal ♦ Low Jitter ♦ Enable/Disable function on pad 1 2.5 x 3.2 x 1.0 mm	APPLICATIONS: 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
PE55J Series LCC Ceramic Package ♦ 3rd Overtone crystal ♦ Low Jitter ♦ Enable/Disable function on pad 1 3.2 x 5.0 x 1.35 mm	PE77J Series LCC Ceramic Package ♦ 3rd Overtone crystal ♦ Low Jitter ♦ Enable/Disable function on pad 1 5.0 x 7.0 x 1.7 mm
PE55F & PE55G Series 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	PE77F & PE77G Series 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
PE99D Series 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	PE44F and PE44G Series 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
PE55D Series (Standard) LCC Ceramic Package ♦ 3rd Overtone crystal ♦ Enable/Disable function on pad 1 3.2 x 5.0 x 1.35 mm	PE77D Series (Standard) 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
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PE44/55/77F	Fund.	13-110	400	45-55	0.9	1.0	27	✓	✓
PE44/55/77G	3rd OT	35-220	400	45-55	0.4	0.9	40	✓	✓
PE99D	Fund. Synth.	10.9-766 876-1,170	300	47-53	0.6	2.1	90		✓
PE55/77D	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