

PLETRONICS

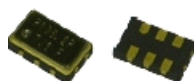
RoHS 6/6 Compliant

Crystal Controlled Oscillators
LVDS OUTPUT

LV55D Series

LCC Ceramic Package
3.2 x 5.0 x 1.35 mm

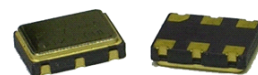
- ◆ 3rd Overtone crystal
- ◆ Enable/Disable function on pad 1
- ◆ Small SMD package for high density board designs



LV77D Series

LCC Ceramic Package
5.0 x 7.0 x 1.7 mm

- ◆ 3rd Overtone crystal
- ◆ Enable/Disable function on pad 1



LV55F and LV55G Series

LCC Ceramic Package
3.2 x 5.0 x 1.35 mm

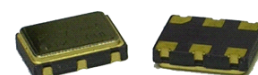
- ◆ LV55F is Fundamental crystal
- ◆ LV55G is 3rd Overtone crystal
- ◆ Improved rise and fall times
- ◆ Enable/Disable function on pad 1
- ◆ Small SMD package for high density board designs



LV77F and LV77G Series

LCC Ceramic Package
5.0 x 7.0 x 1.7 mm

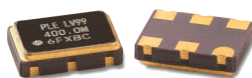
- ◆ LV77F is Fundamental crystal
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- ◆ Enable/Disable function on pad 1



LV99D Series 3.3 Volt Only

LCC Ceramic Package
5.0 x 7.0 x 1.7 mm

- ◆ Advanced Synthesized design
- ◆ uses a fundamental mode crystal
- ◆ Frequencies from 10MHz to over 600MHz.



LV44F and LV44G Series

LCC Ceramic Package
2.5x 3.2 x 1.0 mm

- ◆ LV44F is Fundamental crystal
- ◆ LV44G is 3rd Overtone crystal
- ◆ Improved rise and fall times
- ◆ Enable/Disable function on pad 1

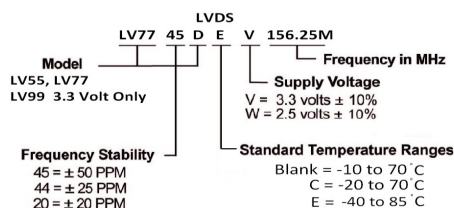


| Pletronics Part Series | Crystal Mode | Frequency Range (MHz) | Tr/Tf Maximum (ps) | Duty Cycle % | Typical RMS jitter (ps) | | Current with Load (ma) | Supply Voltage | |
|------------------------|--------------|-----------------------|--------------------|--------------|-------------------------|------------|------------------------|----------------|------|
| | | | | | 12KHz-20MHz | 10Hz-20MHz | | 2.5V | 3.3V |
| LV55/77D | 3rd OT | 80-325 | 900 | 45-55 | 0.4 | 2.6 | 66 | ✓ | ✓ |
| 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 | | ✓ |

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

Part Numbering



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 linecards.

PLETRONICS

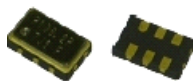
RoHS 6/6 Compliant

Crystal Controlled Oscillators
PECL OUTPUT

PE55D Series

LCC Ceramic Package
3.2 x 5.0 x 1.35 mm

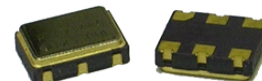
- ◆ 3rd Overtone crystal
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PE77D Series

LCC Ceramic Package
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- ◆ 3rd Overtone crystal
- ◆ Enable/Disable function on pad 1



PE55F and PE55G Series

LCC Ceramic Package
3.2 x 5.0 x 1.35 mm

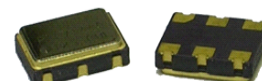
- ◆ PE55F is Fundamental crystal
- ◆ PE55G is 3rd Overtone crystal
- ◆ Improved rise and fall times
- ◆ Enable/Disable function on pad 1



PE77F and PE77G Series

LCC Ceramic Package
5.0 x 7.0 x 1.7 mm

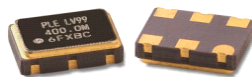
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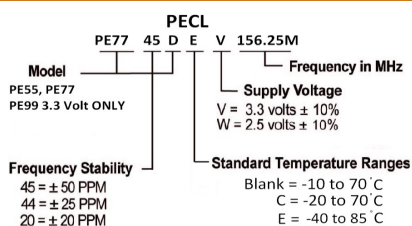


| Pletronics Part Series | Crystal Mode | Frequency Range (MHz) | Tr/Tf Maximum (pS) | Duty Cycle % | Typical RMS Jitter (pS) | | Current with Load (ma) | Supply Voltage | |
|------------------------|--------------|-----------------------|--------------------|--------------|-------------------------|------------|------------------------|----------------|------|
| | | | | | 12KHz-20MHz | 10Hz-20MHz | | 2.5V | 3.3V |
| PE55/77D | 3rd OT | 40-250 | 700 | 45-55 | 0.4 | 2.6 | 90 | ✓ | ✓ |
| 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 | | ✓ |

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