

Product Lineup

Differential Crystal Oscillator(LVPECL,LVDS,HCSL)



Features

- ▶ Low Phase Jitter: As low as 30fs
- ▶ Multiple Output Protocol Support: LVDS, LVPECL, HCSSL (AC or DC Coupling)
- ▶ High Frequency Support: As high as 1.5GHz
- ▶ Wide Temperature Range Support: -10 ~ 70°C, -40 ~ 85°C, -40 ~ 105°C, -40 ~ 125°C
- ▶ Available Frequency Stability: ±20ppm, ±25ppm, ±50ppm
- ▶ Enable/Disable: Tri-state function

Overview

Pletronics Differential Crystal Oscillators are precision quartz-controlled timing sources designed for high-performance digital and communications systems, offering low phase jitter, high frequency capability, high precision, multiple package options, flexible power support, strong drive outputs, and multiple protocol (differential signaling – LVPECL, LVDS, HCSSL) support.

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Product Series	Frequency Range	Series	Stability	VCC	Operation Temperature (Max)	Number of Pads	Package Size (L x W x H)
PE22 LV22	100 to 220MHz	Low Jitter	±20 ~ ±50ppm	*1.8V 2.5V 3.3V	-40 ~ 125°C	6	2.0 x 1.6 x 0.7 mm
PE33 LV33 HC33	13.5 to 220MHz	Low Jitter	±20 ~ ±50ppm	*1.8V 2.5V 3.3V	-40 ~ 125°C	6	2.5 x 2.0 x 0.9 mm
PE44 LV44 HC44	25 to 320MHz	Low Jitter	±20 ~ ±50ppm	*1.8V 2.5V 3.3V	-40 ~ 125°C	6	3.2 x 2.5 x 0.9 mm
PE55 LV55 HC55	25 to 320MHz	Low Jitter	±20 ~ ±50ppm	*1.8V 2.5V 3.3V	-40 ~ 85°C	6	5.0 x 3.2 x 1.2 mm
PE77 LV77 HC77	25 to 250MHz	Low Jitter	±20 ~ ±50ppm	*1.8V 2.5V 3.3V	-40 ~ 85°C	6	7.0 x 5.0 x 1.7 mm
QP44L QL44L	10 to 1500MHz	PRONTO	±20 ~ ±50ppm	2.5V 3.3V	-40 ~ 85°C	6	3.2 x 2.5 x 0.9 mm
QP55L QL55L	10 to 1500MHz	PRONTO	±20 ~ ±50ppm	2.5V 3.3V	-40 ~ 85°C	6	5.0 x 3.2 x 1.25 mm
QP77L QL77L	10 to 1500MHz	PRONTO	±20 ~ ±50ppm	2.5V 3.3V	-40 ~ 85°C	6	7.0 x 5.0 x 1.45 mm

*Note: LVPECL (Low Jitter Series) is not available at 1.8V VCC

