

Pletronics

Manufacturer of
High Quality Crystals & Oscillators



Pletroni

Profile in Innovation

Pletronics Inc. was founded in 1979 as a manufacturer and world-wide distributor of frequency control products (crystals and oscillators). With the sale of its Korean facility in 2000, Pletronics has been pursuing its own fabless strategy, differentiating ourselves from our competitors in many ways.

Our company's focus is on product design and development. For manufacturing the products designed, developed and sold by Pletronics, we rely on a select group of crystal and oscillator factories (foundries) that have been allied with Pletronics for years.

The relationship between Pletronics and these foundries is multi-faceted. We have joint venture agreements for many critical products, and have the ability to quickly acquire additional venture agreements when needed.

For leading-edge products, Pletronics designs and builds the prototypes, manufacturing them in-house initially, then outsourcing the volume production to one or two allied foundries.

The Pletronics' engineering team is very familiar with each foundry's technical capability, manufacturing processes, and QA procedures. Our purchasing team is likewise attuned to each foundry's business practices and culture.

Such close relationships have been nurtured throughout the years, both by Pletronics' buyers and engineers visiting our allied foundries, and with foundry executives and engineers traveling to Pletronics' headquarters and manufacturing facility in Lynnwood, Washington.

For mature products as well as newly developed products Pletronics emphasizes competitive costs, quality assurance and prompt, reliable delivery. Pletronics has qualified multiple foundries for each product type to ensure sufficient manufacturing capacity, working out separate quality plans for each factory.

Engineering team members of Pletronics regularly visit each foundry to monitor the implementation of the quality plans, and review each plan annually or semi-annually.

Pletronics has its own corresponding QA procedure after the products are received from each foundry, adding another quality assurance layer before the products are shipped to our customers.

Pletronics' sales and marketing team consists of inside sales/customer service staff, regional sales managers, and field application engineering staff. The team is well trained and experienced in meeting customers' needs, working with our world-wide network of sales representatives and franchised distributors. The team particularly takes pride in being able to detect new market trends and customer demands, then enlightening the management and the engineering team as to the needs for new product designs and development.

Pletronics' fabless business model assures a concentration of its resources on meeting customers needs through innovation, flexibility, and responsiveness. We are able to quickly and judiciously assign projects to foundries to ensure competitive pricing, quality control, sufficient capacity, and timely delivery.

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Pletronics is Worldwide



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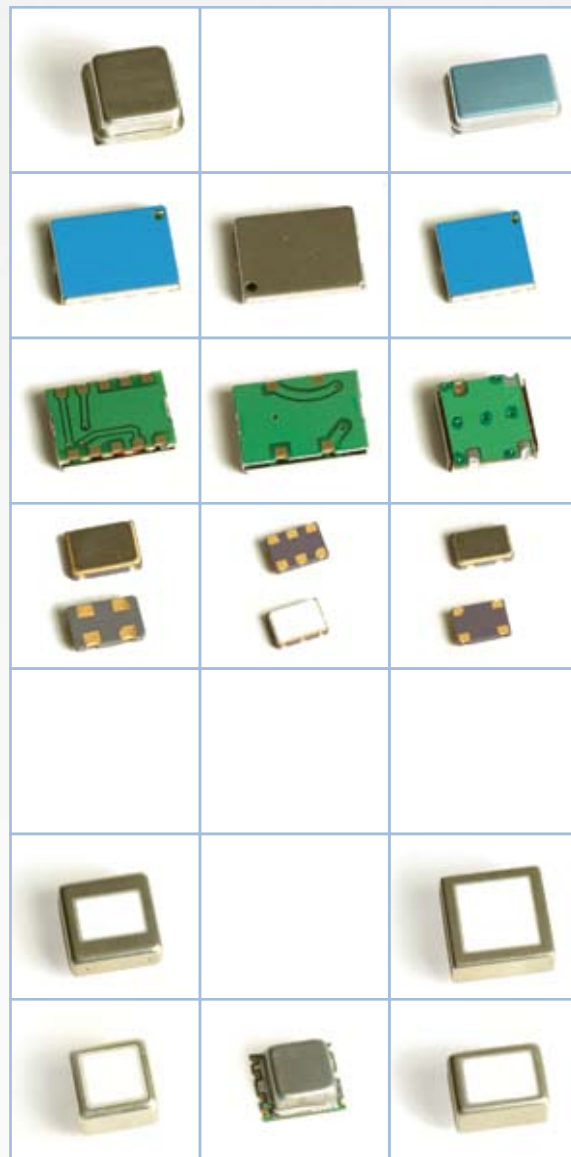
Oscillators

Capabilities:

- Frequencies to 1.2 GHz
- Logic levels of CMOS, ECL, PECL and LVDS
- Supply voltages of 1.8V, 2.5V, 3.3V, 5.0V
- Designed to meet stringent jitter and phase noise requirements.

Examples of Various Solutions:

- LV77, LV88, LV99, PE77, PE88, PE99;
LVDS and PECL 5x7 mm SMD oscillators.
- SM77 (5x7 mm), SM55 (3.2x5 mm),
SM44 (2.5x3.2 mm): CMOS ceramic SMD oscillators meet progressively decreasing space restrictions.



OCXOs

- Frequencies to over 1 GHz
- Sine wave, CMOS, LVDS, PECL
- Supply voltage ranges from 3.3V to 12V

For more information please visit our Web site.

www.Pletronics.com

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Crystals

- All industry standard packages, thru-hole and SMD, available
- Frequencies from 32 KHz to over 80 MHz in fundamental mode and overtone modes

Examples of Applications:

- WX, WX26, WX15, SM20S, SM10S: 32.768 KHz watch crystals
- MP49, LP49, SM42: Low cost crystals for microprocessor applications
- SM13T (5x7 mm), SM12T (3.5x6 mm), SM11T (3.2x5 mm), SM10T (2.5x3.2 mm): Ceramic SMD crystals for progressively decreasing space requirements
- High Reliability SM12T and SM13T: Ceramic SMD crystals for high shock and vibration application
- BT13 (5x7 mm), BT12 (6x3.5 mm), BT11 (3.2x5 mm), BT10 (2.5x3.2 mm): Ceramic SMD crystals in various sizes for Bluetooth® application

TCVCXOs, VCXOs, TCXOs

- Sine wave, Clipped Sine wave, CMOS, ECL, PECL, and LVDS outputs
- Excellent phase noise characteristics
- High frequencies (VCXO: up to 1.2 GHz; TCXO: up to 50 MHz)
- Most industry standard packages, particularly, miniature ceramic packages (VCXO: 5x7 mm; TCXO: 5x7 mm and 3.2x5 mm)



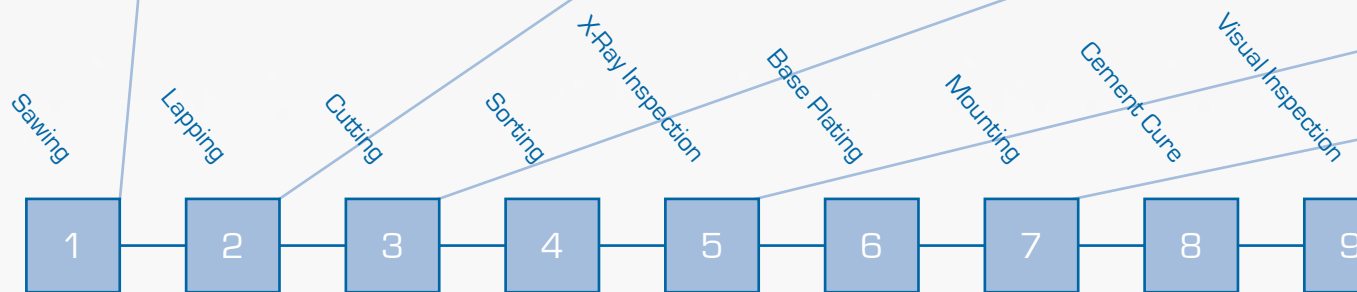
Registered to ISO 9001:2000

RoHS Compliant

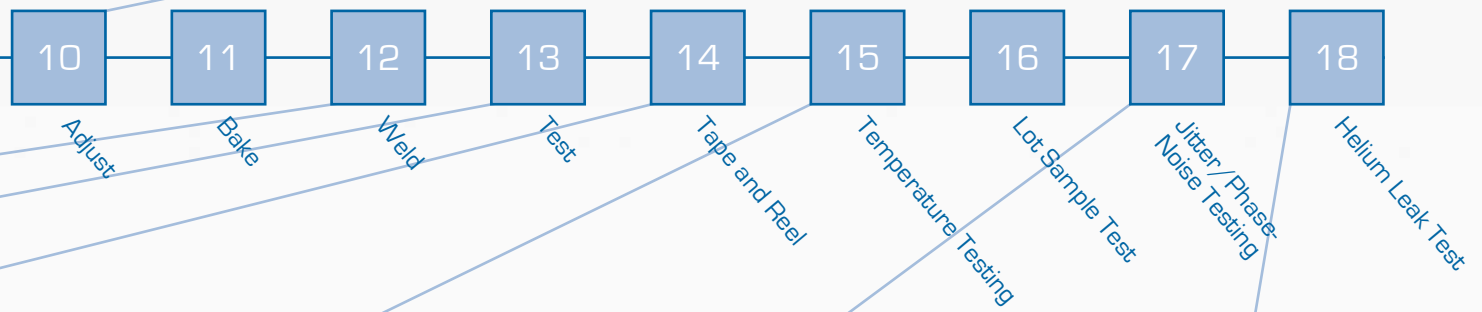
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The Pletronics Process

We control the process from start to finish



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