



ULTRA MINIATURE PURE SILICON™ CLOCK OSCILLATOR

ASFLM SERIES

5.0 x 3.2 x 1.04 mm



FEATURES:

- Ultra Miniature Pure Silicon™ Clock Oscillator
- MEMS Technology by Discera
- > 30,000G Shock Resistance Available
- Low Power Consumption <10mA
- Stability to ±20ppm
- Available -40 to +85°C Operating Temp. Range

APPLICATIONS:

- Real Time Clock Signals for wide range of consumer applications
- Harsh Environment Industrial Equipment
- RF Oscillator

MEMS Technology!

Abracon's new MEMS Oscillators, featuring Discera PureSilicon Resonator™ Technology, are fabricated using the same semiconductor manufacturing techniques used in high-volume IC fabrication. Abracon's valued customers will benefit from Abracon and Discera's new partnership by having direct access to these latest emerging technology frequency products from a reliable and proven supplier. MEMS Oscillators are perfect for high volume consumer electronics applications where low cost and high reliability are a must. MEMS technology offers a development road map of continued miniaturization, and cost reduction opportunities that are available by utilizing MEMS Oscillator semiconductor manufacturing techniques. **Other sizes of the ASFLM are to be released in upcoming 2007 quarters.**

PROGRAMMABLE CRYSTAL OSCILLATOR

APxS

Low Jitter!



2.5 x 2.0 x 0.9 mm
3.2 x 2.5 x 1.1 mm
5.0 x 3.2 x 1.2 mm
7.0 x 5.0 x 1.5 mm

Ultra Miniature Packages!

FEATURES:

- Performance comparable to fixed frequency oscillator
- Lowest peak-to-peak jitter
- Low supply current
- Short lead time
- Suitable for mass production
- Alternative to long lead-time XO's
- Up to 200MHz over 2.25V to 3.63V range
- Peak to Peak Jitter typical 30-70ps
- Duty Cycle 45-55%
- 1.5nS Max (High Drive Mode) 10%/90% VDD
- Available 1.8V, 2.5V, and 3.3V in AP2S & AP3S packages

For Small Quantities, Delivery Time is 1-5 days!

3.3V REDUCED JITTER SMD SPREAD SPECTRUM CLOCK OSCILLATOR

ASSVJ SERIES

7.0 x 5.0 x 1.8 mm



FEATURES:

- Low Cycle to Cycle Jitter
- Integrated Spread Spectrum Technology
- Cost Effective EMI reduction (up to 20dB)
- Solve EMI failures as a drop in replacement for std. 5x7mm Osc.

APPLICATIONS:

- Printers, Digital Copy Machines, Scanners, Projectors, Modems, LAN, WAN, Navigation Equipment, Automotive, Audio, Medical Electronics, Hand-held readers, Industrial Automation

TIGHT STABILITY INDUSTRIAL GRADE OSCILLATOR

ASET SERIES

3.2 x 2.5 x 1.2 mm



FEATURES:

- **Industrial grade tight temp. stability ($\pm 5.0\text{ppm} / -40$ to $+85^\circ\text{C}$)**
- Highly reliable seam-sealed package
- Low current consumption
- Low phase noise and jitter
- Fast start-up time
- CMOS output with Tri-state function

APPLICATIONS:

- Wireless LAN
- Mobile communications
- PLC modem
- WiMax

KEY APPLICATION:

- Home networking by AC socket

TIGHT STABILITY INDUSTRIAL GRADE OSCILLATOR

ASFLT SERIES

5.0 x 3.2 x 1.2 mm



FEATURES:

- **Industrial grade tight temp. stability ($\pm 5.0\text{ppm} / -40$ to $+85^\circ\text{C}$)**
- Highly reliable seam-sealed package
- Low current consumption
- Low phase noise and jitter
- Fast start-up time
- CMOS output with Tri-state function

APPLICATIONS:

- Wireless LAN
- Mobile communications
- PLC modem
- WiMax

KEY APPLICATION:

- Home networking by AC socket

ULTRA MINIATURE CERAMIC SMD CRYSTAL

ABM12 SERIES

1.6 x 1.2 x 0.45 mm



FEATURES:

- RoHS compliant
- Suitable for reflow
- Tight stability available
- Ceramic package seam welded sealing assures high precision and reliability
- Smallest package size in industry

APPLICATIONS:

- Blue-tooth, Wireless applications
- Computers, Modems, Microprocessors
- Communication, Test equipment
- High density applications
- PCMCIA
- Portable radios and MP3 players

VOLTAGE CONTROLLED CRYSTAL OSCILLATOR

ASTX-12 | ASVTX-12 SERIES

2.5 x 2.0 x 1.0 mm



FEATURES:

- Compact and low in height
- Low current consumption
- Suitable for high-density SMT
- Vc function corresponds to PLL circuits
- IR reflow soldering possible
- Low phase noise

APPLICATIONS:

- Cellular and cordless phones
- Standard OSC for exact equipment
- Mobile communication equipment
- Portable radio equipment
- Personal Digital Assistants (PDAs)
- Portable music players