



# HIGH TEMPERATURE

## Extreme Environment Products

Oscillators | Crystals | Real Time Clock Modules | VCXOs | Temperature Sensors | Sensor Drivers

## FREQUENCY MANAGEMENT | International



**Ruggedized for High Shock, Vibration & Ambient Pressure**

As a manufacturer of high reliability crystals and oscillators, FMI offers extensive experience providing optimum frequency and timing components for harsh environment and extreme temperature systems and instrument applications.

FMI's product offerings include packaged crystals, fixed frequency oscillators, voltage controlled oscillators and temperature sensors. FMI also provides a variety of compact, low power and harsh environment drivers for piezoelectric sensors and transducers. Our products meet customer requirements for PCB, Hybrid, to MCM assembly configurations.

We offer a variety of package styles and form-factors that include through-hole and surface mount package types that meet the performance requirements under extreme environment operating conditions.

- Miniature Surface Mount Packages – 7x7, 5x7, 5x3.2, 3.2x2.5 (all sizes in mm)
- Through Hole Packages – DIP, TO style and Leaded SMD

FMI is the market leader in the development and implementation of the smallest package footprints for high reliability applications, including the 5x3.2 mm and 3.2x2.5 mm packages.

Ask us about our 200°C Low-power RTC with Calendar features and built-in 32.768 KHz Crystal Oscillator.

### Electrical Performance Highlights

- Best optimized frequency stability vs. temperature range
- Extreme low power timing solutions for Real Time Systems
- Lowest power consumption at any operating voltage
- Longest operating life at the highest temperatures
- Standard output logic such as CMOS (HC/AC) or Sine Wave
- Choice of operating voltage 1.2V to 18V covering all standards

### Operating Environment Highlights

- Lowest and Highest operating temperatures from -180°C to +325°C (XO)
- Harsh environment compliance such as shock, vibration, thermal cycling, acceleration, altitude and ambient pressure to >10,000 psi

**QPL MIL-PRF-55310  
MIL-STD-790  
ISO 9001-2015  
Pb-free | RoHS**

### Hi-Temp Low Power Series - ALP - 5x3.2

**Model #: ALP5326-32K768**  
32.768 KHz Crystal Oscillator  
Low Power Clock 40  $\mu$ A @ 200°C, 3.3V  
75 ppm Tight Stability -40 to 200°C  
5x3.2 mm Ceramic SMD

**NEW**



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