



Hi-Rel SPACE

Oscillators | Crystals | VCXOs



Offering Robust Solutions for Extreme Environments Including:
Hi-Rel Space (GEO, LEO, MEO, Deep Space Robotics), Commercial Space, Military & Avionics

FREQUENCY MANAGEMENT | International



KRad to MRad Solutions: Smallest SMD 5x3.2, 5x7 to Legacy Flat Pack, DIP & TO-5 Voltages from 1.8V to 5V

FMI, a QPL (MIL-PRF-55310) approved manufacturer, offers compelling crystal and oscillator solutions for demanding performance under extremes of temperature, shock, vibration, radiation, ambient pressure or any combination of these factors.

Our proven designs are supported by configuration control, material traceability and total adherence to customer requirements for TID & SEE.

FMI is the global leader in small form factor extreme environment timing and frequency control components.



QPL/41
MIL-PRF-55310F

Smallest | Lightest | Most Robust
DLA Qualified Crystal Oscillator
5x7 mm SMD w/ Gull Wing Leads
500 KHz to 125 MHz, 3.3V CMOS

QPL Product Level B with Class K EE Die offering cost & delivery optimized solutions.

Electrical Performance Highlights

Standard output logic such as CMOS (HC/AC), LVDS or Sine Wave

Optimized frequency stability vs. temperature range

Standard and customer specified TID/SEE requirements

Choice of operating voltage 1.8V to 12V covering all standards

Lowest power consumption at any operating voltage

Longest operating life at the widest temperature ranges

Operating Environment Highlights

Lowest and Highest operating temperatures from:

Oscillators: -180°C to +325°C, Crystals: -180°C to +500°C

Harsh environment compliance (includes but not limited to MIL-PRF-55310 & MIL-PRF-38534) such as shock, vibration, thermal cycling, acceleration, altitude and ambient pressure to 10,000 psi

SINGLE EVENT OPTIONS

Series: S75 - 100 Krad
SEL >75 MeV cm²/mg
• CMOS, 3.3V
• 20 to 130 MHz Crystal Oscillator
• Space Grade, Tight Stability
• 5x7 mm Gull Wing Ceramic SMD

NEW
5x3.2 also available

FMI Commercial Space Products



MIL-PRF-55310
MIL-PRF-38534
MIL-PRF-3098
MIL-STD-790
ISO 9001:2015

Note, references to MIL-PRF-55310, MIL-PRF-38534, MIL-PRF-3098 relates only to the active device and/or to the device screening.

Check out our C-Series brochure for best performance/value for Small-sat, Cube-sat, Constellation and Nano-Sat missions. C-Series offers the smallest SMD package sizes and adaptable to TID range to 150Krad/Si.



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