

Racal 405096

VXIbus Communication Daughtercard



In Stock

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DATUM 8000 LOW PROFILE RUBIDIUM OSCILLATOR



KEY ADVANTAGES

- **48-Hour Holdover**
- **Aging $<5e-11$ per month**
- **Single PWB with Surface Mount Technology**
- **Superior Ease of System Integration**
- **Footprint and Height Fits 1U VME Requirements**

Designed for ease of integration into frequency and timing systems, the Datum 8000 offers a low profile and single circuit board construction using surface mount technology. The height and footprint easily meet the requirements for 1U VME applications. Use of both a filter plate connector for I/O signals and an outer mu-metal cover minimizes EMI emissions and susceptibility. For ease of integration, the Datum 8000 only needs one input supply voltage and will allow direct plug-in into another circuit board.

The long life rubidium lamp and extended crystal control range of the Datum 8000 help extend operating periods and minimize maintenance resulting in consistent performance for up to a decade or more. By design, the Datum 8000 provides a stable frequency with good short and long term stability, and excellent spur performance. A 5V CMOS-compatible alarm signal derived from the basis physics operation indicates when output frequency is outside roughly $\pm 5E-8$ of absolute frequency offset.

Based on many years of refinement, the Datum 8000 Rubidium Oscillator offers high reliability supported by tens of thousands of field units. Suitable applications include digital network timing, navigation timing, and secondary references for simulators and GPS Receivers.



datum

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