

DROR Disciplined Rubidium Oscillator Replacement

DROR supplies two isolated 10MHz outputs that are phase-synchronized to its two 1PPS outputs with better than 2ns accuracy. DROR also contains an internal 50-channel WAAS-enabled GPS receiver that provides support for avionics systems through its integrated 3-axis gyro-accelerometers and -160dBm GPS tracking capability. Legacy Rubidium references have a typical power consumption of up to 18W or more. DROR power requirements are less than 4.9W steady-state, and only a single supply of between 15V to 32V is required. The ruggedized DROR enclosure size is 6.00 x 5.77 x 1.18 inches and weighs less than 1.3 lb, and is made of anodized aluminum.

For plug-and-play integration the unit can be monitored and controlled by an RS-232 port via industry standard SCPI-99 Commands (GPIB commands), and is capable of generating numerous NMEA-0183 output sentences for easy integration into existing infrastructure. With performance that far exceeds existing Rubidium references at a fraction of the cost, the DROR sets a new performance standard.

