

Communications

XR215A

Monolithic Phase-Locked Loop

Features

- Wide Frequency Range: 0.5Hz to 25MHz
- Wide Supply Voltage Range: 5V to 26V
- Wide Dynamic Range: 300 V to 3V, nominally
- ON-OFF Keying and Sweep Capability
- Wide Tracking Range: Adjustable from +1% to +50%
- High-Quality FM Detection: Distortion 0.15% Signal/Noise 65dB

Applications

- FM Demodulation
- Frequency Synthesis
- FSK Coding/Decoding (MODEM)
- Tracking Filters
- Signal Conditioning
- Tone Decoding
- Data Synchronization
- Telemetry Coding/Decoding
- FM, FSK and Sweep Generation
- Crystal-Controlled PLL
- Wideband Frequency Discrimination
- Voltage-to-Frequency Conversion

The XR215A is a highly versatile monolithic phase-locked loop (PLL) system designed for a wide variety of applications in both analog and digital communication systems. It is especially well suited for FM or FSK demodulation, frequency synthesis and tracking filter applications. The XR215A can operate over a large choice of power supply voltages ranging from 5V to 26V and a wide frequency band of 0.5Hz to 25MHz. It can accommodate analog signals between 300mV and 3V.