

# AX7 ClearClock™

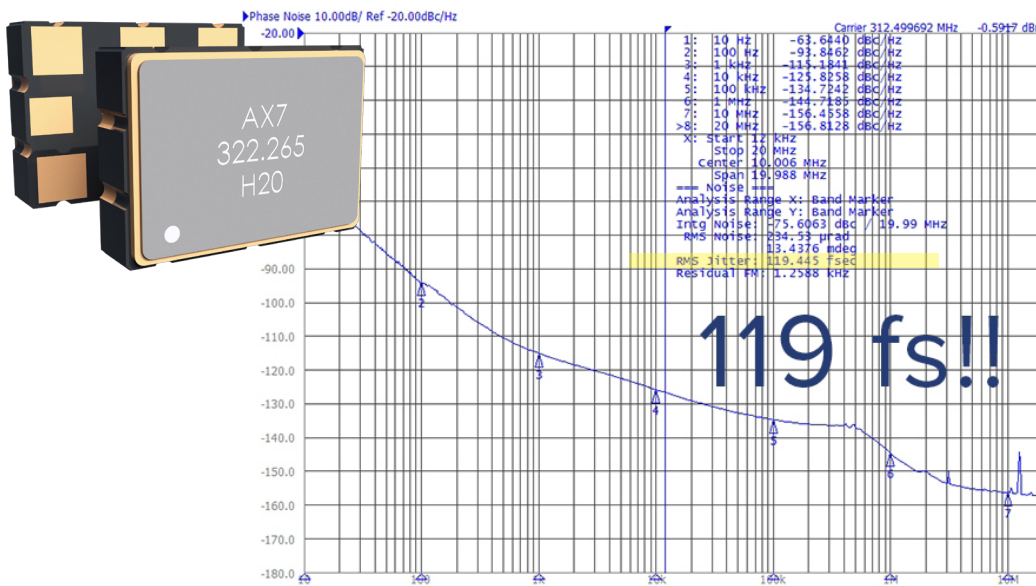
## Power Optimized 119fs for RF and Networking

- Lowest power consumption
- Widest frequency range
- Wide operating voltage range

The AX7 ClearClock™ oscillator for next generation networking and RF applications leads the industry in low power consumption while maintaining typical jitter of 119fs ideal for clocking serial data links beyond 56Gbps. The series features the widest factory configurable frequency range from 50MHz to 2.1GHz for this performance class.

**Configurable options include:** supply voltage (3.3V, 2.5V, or 1.8V), operating temperature range (-20°C to +70°C or -40°C to +85°C) with an all inclusive frequency stability over 10 year product life at ±50ppm or ±100ppm. The AX7 series is optimized for superior rms jitter performance (0.119ps typ), while consuming 129mW in industry standard 5x7mm package.

### ClearClock™ 322.265625MHz | HSCL | 2.5V



- 119fs typ jitter (150fs MAX f>200MHz)
- Widest frequency in its class from 50 to 2.1GHz
- Lowest in-class power consumption 70mA MAX Idd (LVDS)
- Programmable oscillator (quick turn around sample)
- Supports LVPECL, LVDS, HCSL, and CML output logic type

For more information see complete AX7 Datasheet

## APPLICATIONS

### RF Systems

- High speed SERDES up to 56Gbps
- High Performance Computing (HPC)
- Network Processors

### PCI Express

- BTS/Basestations
- Test and measurement
- FPGA/Processors

### 100/400Gb Ethernet

- Server, Storage, Fiber Channel
- Networking and Communications
- Backplane/Chip to Chip Buses