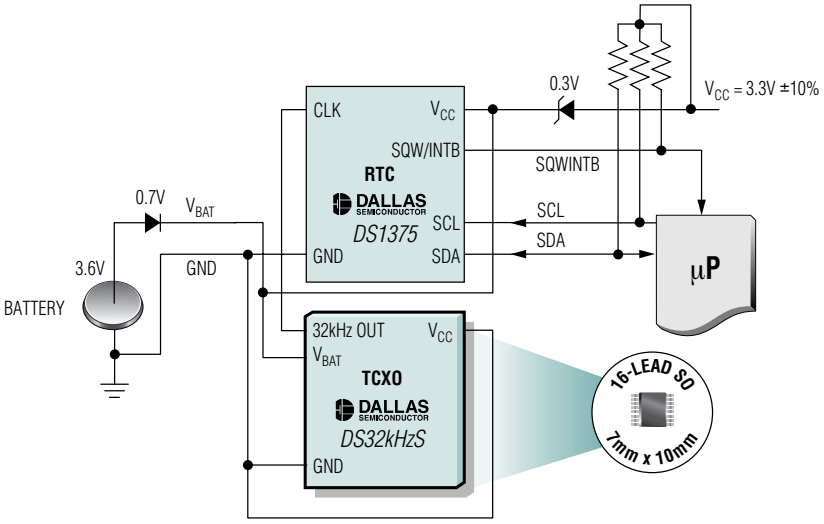
32.768kHz TCXO WITH INTEGRATED CRYSTAL ENABLES EXTREMELY ACCURATE RTCs

Available in Standard SO Package and Requires No User Calibration

The DS32kHzS provides the most cost-effective solution for achieving extremely accurate (≤±1.0min [±2.0ppm] per year) real-time clocks (RTCs). When combined with Dallas Semiconductor's RTCs, simple and very accurate timing solutions can be produced. Alternative solutions would require higher cost and higher current TCXO technologies not defined or designed for RTC applications in battery-backed systems. Clock accuracy does not diminish in a battery-backed mode.



Applications

- Telematics
- GPS
- Electric Meters
- Fleet Management
- Servers
- Security Systems
- Access Control Systems

- <±1.0min/Year Accuracy from 0°C to 40°C
- <±4.0min/Year Accuracy from -40°C to +85°C
- 3V or 5V Power Supplies
- Low Battery-Back Current (<4µA)
- Automatic Power-Fail Detect and Switch Circuitry for Battery-Backed Applications
- 16-Lead, 300-mil SO Package
- Low Cost: $3.49†

Part	Operating Temp Range (°C)	Package	Accuracy over Temp Range (ppm over °C)			
			-40 to 0	0 to +40	+40 to +70	+70 to +85
DS32kHzS	0 to +70	16-SO	—	±2	±7.5	—
DS32kHzSN	-40 to +85	16-SO	±7.5	±2	±7.5	±7.5

†1000-up recommended resale. Prices provided are for design guidance and are FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.

DALLAS SEMICONDUCTOR MAXIM

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