



32.7 kHz All Silicon Oscillator

Key Features

- Frequency tuned to 32.7kHz
- 10kHz to 300kHz real-time clock range
- Low voltage operation
- Ultra low power less than 5 micro amp
- Very small footprint ~0.18 mm²
- Patented technology
- Fabricated using standard CMOS digital logic, no special processing
- Qualified on ON Semiconductor 180nm standard process

Characteristics	Value	Units
Operating Voltage	1.7 - 1.9 and 2.8 - 3.2	V
Active current	4.0 and 5.0	μA
Temperature Range	-40° to +85°	C
Frequency	32768	Hz
Frequency Tolerance	± 8% @ 25° C (untrimmed)	
Frequency/Temperature Deviation	+0.4 to -0.1	%
Frequency/Volt Deviation	+0.4	%
Frequency Selection	External Resistor	
Startup Time	<200	μs
Output Waveform	Square	
Duty Cycle	50 ±5	%
Jitter	Standard Deviation 2	Hz
Package	IP, SC70 or custom package	

Applications

- Mobile platforms
- Embedded systems
- Start-up and wake circuits

For more information contact:

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