

14 pin DIL Low-Power Oscillator

27.3kHz to 100.00kHz

FEATURES

- Low frequency using an AT-cut crystal
- Current consumption in μA range
- Supply voltage range from +1.8 to +5.0Volts
- 32.768kHz standard frequency ideal for accurate real-timeclock applications
- Suitable for battery-operated devices, data loggers etc.

DESCRIPTION

LPO-AT oscillators are ideal for battery operated portable or handheld consumer electronic devices where low supply current consumption is essential. Applications include data logging and portable test equipment.

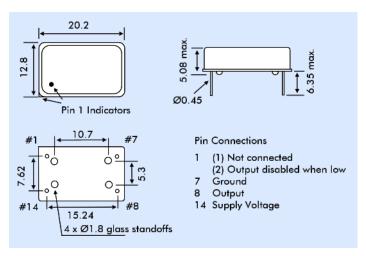
SPECIFICATION

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Model:	LPO-AT14			
Input Voltage (±10%):	1.8V, 2.5V, 3.3V, 5.0V			
Frequency Range:	27.3kHz~100.00kHz			
5.0V Supply ONLY:	27.3kHz~52kHz			
Output Waveform:	HCMOS (square wave)			
Frequency Stability:	See table 1			
Curent Consumption				
Supply = 1.8 Volts:	32μA typical, 50μA maximum			
Supply = 2.5 Volts:	32μA typical, 50μA maximum			
Supply = 3.3 Volts:	33μA typical, 50μA maximum			
Supply = 5.0 Volts:	36μA typical, 60μA maximum			
Output Logic High '1':	90% of Supply Voltage			
Output Logic Low '0':	10% of Supply Voltage			
Rise/Fall Times				
Supply = 1.8 Volts:	20nsec. maximum			
Supply = 2.5 Volts :	20nsec. maximum			
Supply = 3.3 Volts:	12nsec. maximum			
Supply = 5.0 Volts:	12nsec. maximum			
Start-up Time:	1.0ms typical, 5.0ms maximum			
Duty Cycle:	50%±5%			
Storage Temperature:	-55°C to +125°C			
Ageing:	±3ppm maximum first year, ±2ppm			
	maximum per year thereafter			
Output Load:	15pF			

RoHS



OUTLINE & DIMENSIONS



Frequency Stability over Operating Temperature Range	±25ppm	±50ppm	±100ppm
Commercial (-10°C to +70°C)	Α	В	С
Industrial (-40°C to +85°C)	D	E	F

Table 1, Frequency Stability Codes

PART NUMBERING

