

OVEN CONTROLLED CRYSTAL OSCILLATOR

AOCJY4 Series



RoHS
Compliant



36.1x 27.2 x 13mm

FEATURES:

- 36.1x 27.2 x 13mm Leaded- RoHS Compliant Reflow-able Package
- SC-Cut, High "Q" resonator based design
- Either Sinewave or CMOS RF output
- Available with ± 10 ppb over -40°C to $+75^{\circ}\text{C}$ operating temperature Range
- Tighter Stabilities to ± 2.0 ppb over 0°C to $+50^{\circ}\text{C}$ also available
- Exceptional long-term Aging of ± 500 ppb max. over 10-Year Product Life
- Excellent close-in phase noise (-140 dBc/Hz Typical @100 Hz offset; 10MHz carrier)

APPLICATIONS:

- Cellular Infrastructure
- Radar Systems
- Test & Measurement Equipment
- GPS Tracking with precision hold-over accuracy
- WiMax / WLAN

STANDARD SPECIFICATIONS:

| Parameters | Minimum | Typical | Maximum | Units | Notes |
|--|--|---------------------|--------------|--------------------|------------------------------|
| RF Output | | | | | |
| Frequency | 10.00 | | 40.00 | MHz | Overall Frequency range |
| Standard Available Frequencies | 10.00, 12.80, 13.00, 26.00, 38.88, 40.00 MHz | | | | |
| Waveform | CMOS | | | | |
| Level "1" (Logic High) | 4.50 | | | Volts | |
| Level "0" (Logic Low) | | | 0.50 | Volts | |
| Load | | 15 | | pf | |
| Rise & Fall Time | | | 6.0 | ns | |
| Duty Cycle | 45 | | 55 | % | |
| Waveform | Sinewave | | | | |
| Peak Power | 2.00 | | | dBm | |
| Output Load | | 50 | | Ω | |
| Short Term Stability | | 1×10^{-10} | | /second | Alan Variance |
| Operable Temperature Range | -40 | | 75 | $^{\circ}\text{C}$ | <i>See Stability Options</i> |
| Frequency Stability Options | | | | | |
| 0 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$ (Note #1) | | | ± 2.00 | ppb | Default Spec. |
| -20 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$ | | | ± 10.00 | ppb | Option "E" |
| -40 $^{\circ}\text{C}$ to +75 $^{\circ}\text{C}$ | | | ± 10.00 | ppb | Option "F" |
| Frequency Stability vs. Supply Voltage (Vdd $\pm 5\%$) | | | ± 1.00 | ppb | |
| Frequency Stability vs. Load Variation ($\pm 10\%$) | | | ± 1.00 | ppb | |
| Warm-Up @ 25 $^{\circ}\text{C}$ | | | ± 100.00 | ppb | In ≤ 3 -minutes |
| Power Consumption @ turn on | | | 4.00 | Watts | |
| Power Consumption Steady State | | | 1.50 | Watts | |
| Supply Voltage (Vdd) | 4.75 | 5.00 | 5.25 | Volts | <i>See Options</i> |

Note #1: ± 2.00 ppb stability is only available for $F_0 \leq 13\text{MHz}$. For frequencies above 13MHz, the best available frequency stability is ± 10.00 ppb over -20°C to $+70^{\circ}\text{C}$

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30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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STANDARD SPECIFICATIONS - continued.

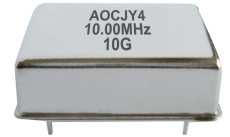
| Parameters | Minimum | Typical | Maximum | Units | Notes |
|---|---------|----------|---------|-------|----------------|
| Aging | | | | | |
| Daily | | | ±1.0 | ppb | |
| First Year | | | ±100 | ppb | |
| 10-Years | | | ±500 | ppb | |
| Spectral Content | | | | | |
| Spurious Response | | | -35 | dBc | |
| Phase Noise (10MHz Carrier) @ 5V | | | | | |
| @ 1 Hz offset | | | -90 | dBc | |
| @ 10 Hz offset | | | -120 | dBc | |
| @ 100 Hz offset | | | -140 | dBc | |
| @ 1,000 Hz offset | | | -145 | dBc | |
| @ 10,000 Hz offset | | | -150 | dBc | |
| Electrical Frequency Adjustment | | | | | |
| Control Voltage Range (Vc) | 0.0 | | 5.00 | Volts | |
| Frequency Pull Range | ±0.700 | | | ppm | |
| Frequency Pull Slope | | Positive | | | |
| Control Voltage Port Impedance | 10 | | | kΩ | |
| Center Control Voltage | 2.00 | 2.50 | 3.00 | Volts | |
| Control Port Linearity | | ±10 | | % | |
| Reference Voltage (Vdd=5.0V) | 4.40 | 4.50 | 4.60 | Volts | Output @ Pin#2 |
| Reference Voltage (Vdd=12.0V) | 4.90 | 5.00 | 5.10 | Volts | Output @ Pin#2 |
| Storage Temperature | -40 | | +100 | °C | |

OPTIONS AND PART IDENTIFICATION (Left blank if standard)



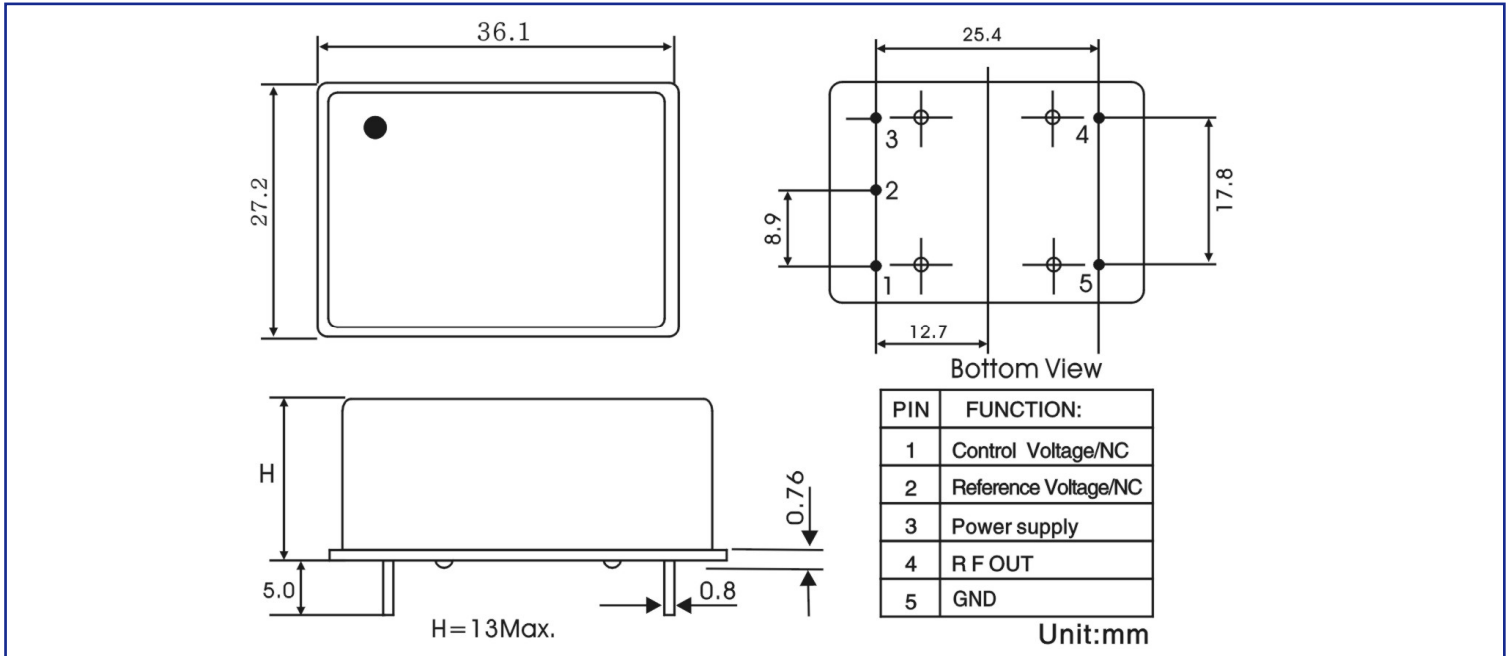
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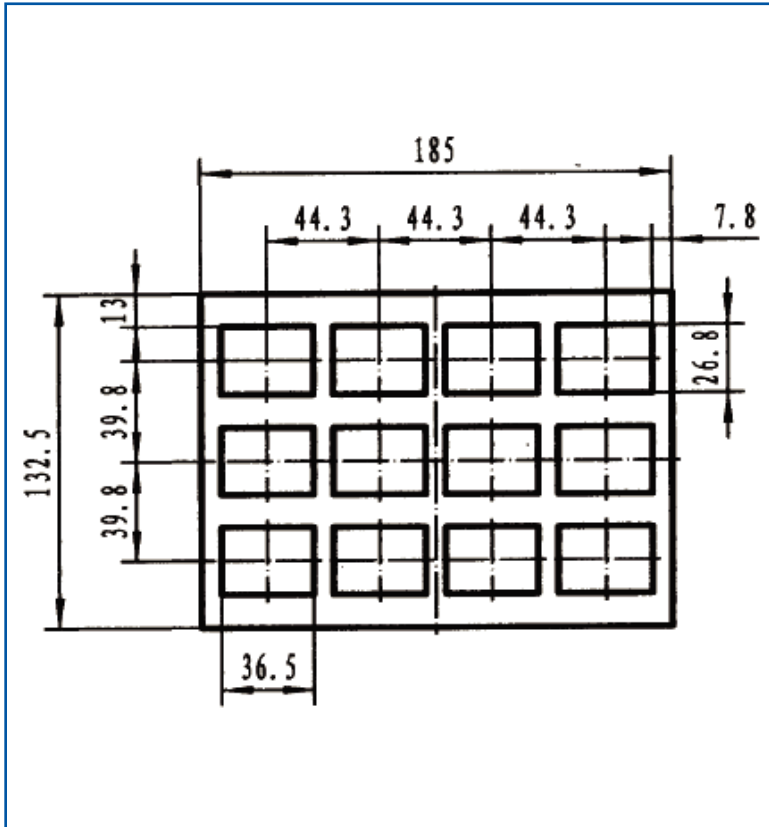


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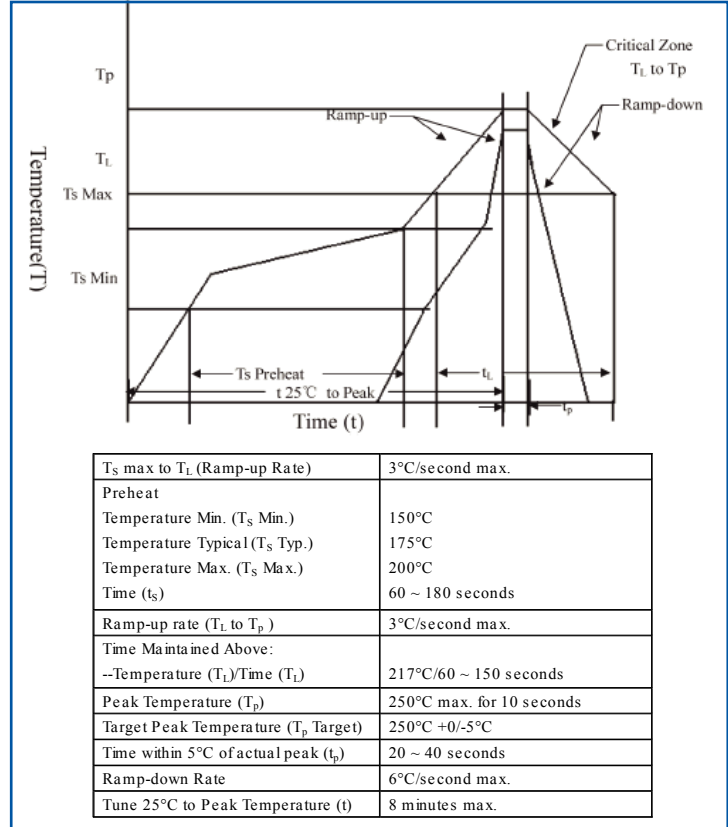
OUTLINE DIMENSIONS



PACKAGING: 12 pcs/tray



REFLOW PROFILE:



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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru