

HALF SIZE DIP LOW VOLTAGE 3.3VHCMOS/TTL COMPATIBLE CRYSTAL CLOCK OSCILLATOR



13.2 x 13.2 x 5.5mm

ACHL Series

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable



RoHS
Compliant

FEATURES:

- Tri-state Enable/Disable option
- Low supply voltage 3.3V
- HCMOS and TTL compatible
- Tight symmetry option 50% +/-5%

APPLICATIONS:

- Clock signal sources for digital chips and microprocessors
- Low power applications

STANDARD SPECIFICATIONS:

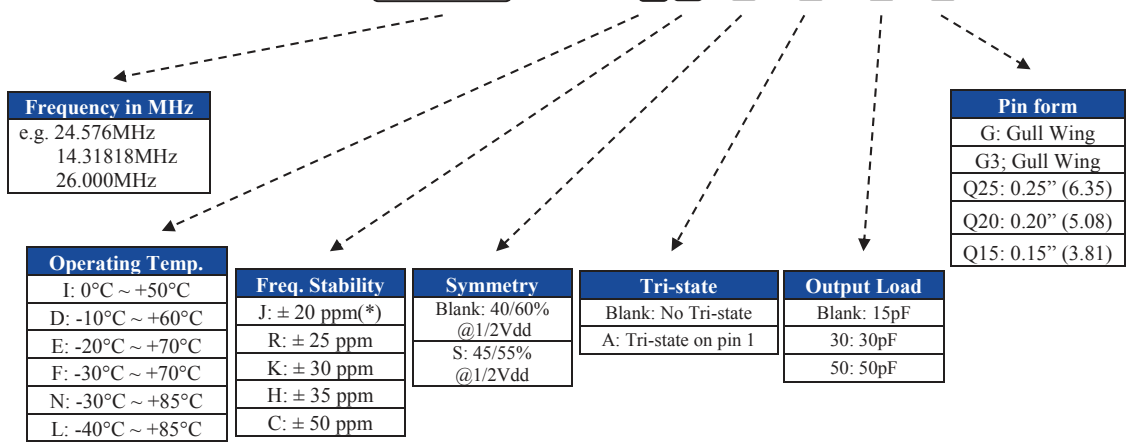
| Parameters | | Minimum | Typical | Maximum | Units | Notes |
|-----------------------------|-----------------------|---------|---------|---------|-------|---|
| Frequency Range | | 0.400 | ----- | 160.000 | MHz | |
| Operating Temperature | | 0 | ----- | +70 | °C | See options |
| Storage Temperature | | -55 | ----- | +125 | °C | |
| Overall Frequency Stability | | -100 | ----- | +100 | ppm | See options |
| Supply Voltage (Vdd) | | 2.97 | 3.3 | 3.63 | V | |
| Input Current | 0.400MHz ~ 24.999MHz | ----- | ----- | 20 | mA | |
| | 25.000MHz ~ 99.999MHz | ----- | ----- | 40 | | |
| | 100.000MHz ~ 16000MHz | ----- | ----- | 80 | | |
| Symmetry (@ 1/2Vdd) | | 40 | 50 | 60 | % | See options |
| Rise and Fall Time (Tr/Tf) | 0.400MHz ~ 24.999MHz | ----- | ----- | 10 | ns | |
| | 25.000MHz ~ 99.999MHz | ----- | ----- | 5 | | |
| | 100.000MHz ~ 16000MHz | ----- | ----- | 4 | | |
| Output Load | | ----- | ----- | 15 | pF | See options |
| | | ----- | ----- | 5 | TTL | |
| Output Voltage | VOH | 0.9*Vdd | ----- | ----- | V | |
| | VOL | ----- | ----- | 0.1*Vdd | V | |
| Tri-state Function | VIH | 2.2 | ----- | ----- | V | "1" or Open: Oscillation "0": Output disable (Hi Z) |
| | VIL | ----- | ----- | 0.8 | V | |
| Output Enable time | | ----- | ----- | 4 | ms | For option A only |
| Output Disable time | | ----- | ----- | 100 | ns | For option A only |
| Start-up Time | | ----- | 1 | 10 | ms | |
| Phase Jitter RMS (12~20MHz) | | ----- | ----- | 1 | ps | Reference only. Please contact Abracon for specific frequencies |
| Aging | | -5.0 | ----- | +5.0 | ppm | @+25°C First year |

* Overall frequency stability includes initial tolerance, temperature stability, and aging.

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ACHL - MHz - - - - -



(*) Temp option I, D, E and 0°C ~ +70°C only.

ABRACON IS
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CERTIFIED



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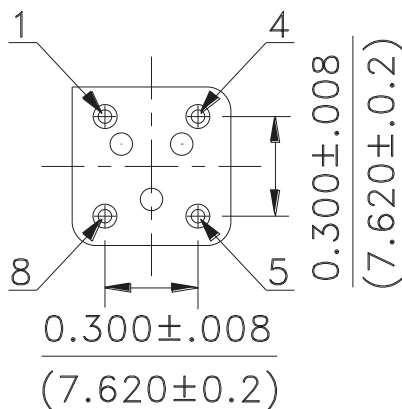
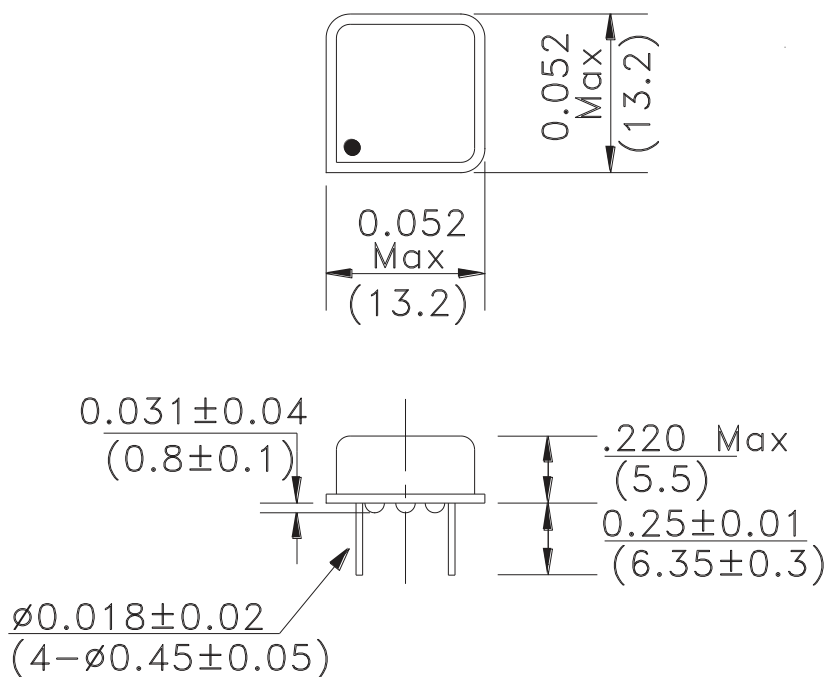


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13.2 x 13.2 x 5.5mm

OUTLINE DIMENSIONS:



| Pin | Function |
|-----|--------------|
| 1 | Tri-State/NC |
| 4 | GND |
| 5 | Output |
| 8 | Vdd |

Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 2 and 4.

Dimensions: inches (mm)

Packaging

40pcs /tube

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