

# HALF-SIZE DIP LOW VOLTAGE 5.0V CRYSTAL CLOCK OSCILLATOR

ACH Series



**RoHS**  
Compliant



12.7 x 12.7 x 5.6mm

## FEATURES:

- Wide frequency range.
- HCMOS and TTL compatible.
- Tight symmetry option.
- Tri-state Enable / Disable function.

## APPLICATIONS:

- Microprocessors.
- Digital circuit.

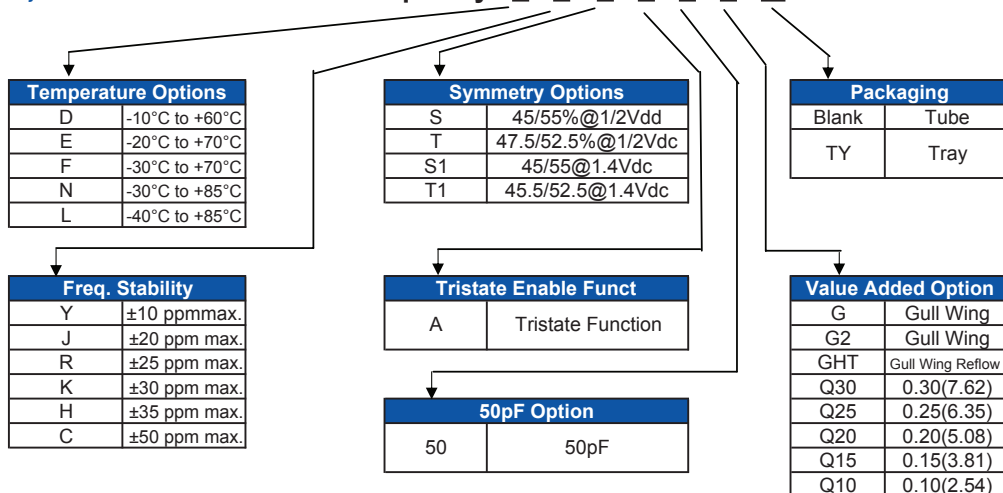
## STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ACH Series
Frequency:	32.768kHz to 200MHz
Operating temperature:	0°C to +70°C
Storage temperature:	- 55°C to + 125°C
Frequency Stability:	± 100ppm max. (see options)
Supply voltage (Vdd):	5.0Vdc ± 10%
Symmetry:	45/55% max. for F<50MHz 40/60% max. for F>=50MHz (see options)
Rise and Fall Times(Tr/Tf):	40ns max. for 32.768kHz ≤ F < 2MHz 10ns max. for 2MHz ≤ F ≤ 24MHz 5ns max. for F>24MHz
Output load:	10 TTL or 15 pF for F<80MHz 5 TTL or 15 pF for F>=80MHz
Output Voltage:	VOH = 0.9 * VDD min. VOL = 0.1*VDD max.
Tri-state Function:	"1" (VIH ≥ 2.2 Vdc) or open: Oscillation "0" (VIL < 0.8V): Hi Z
Start-up-time:	10 ms max
Output Disable/ Enable time:	100 ns max. (for Option "-A" ONLY)
Input current:	30 mA max. for F < 24 MHz 45 mA max. for F < 50 MHz 70 mA max. for F < 80 MHz 85 mA max. for F ≥ 24 MHz

## OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ACH - Frequency - □ - □ - □ - □ - □ - □ - □



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ACH Series

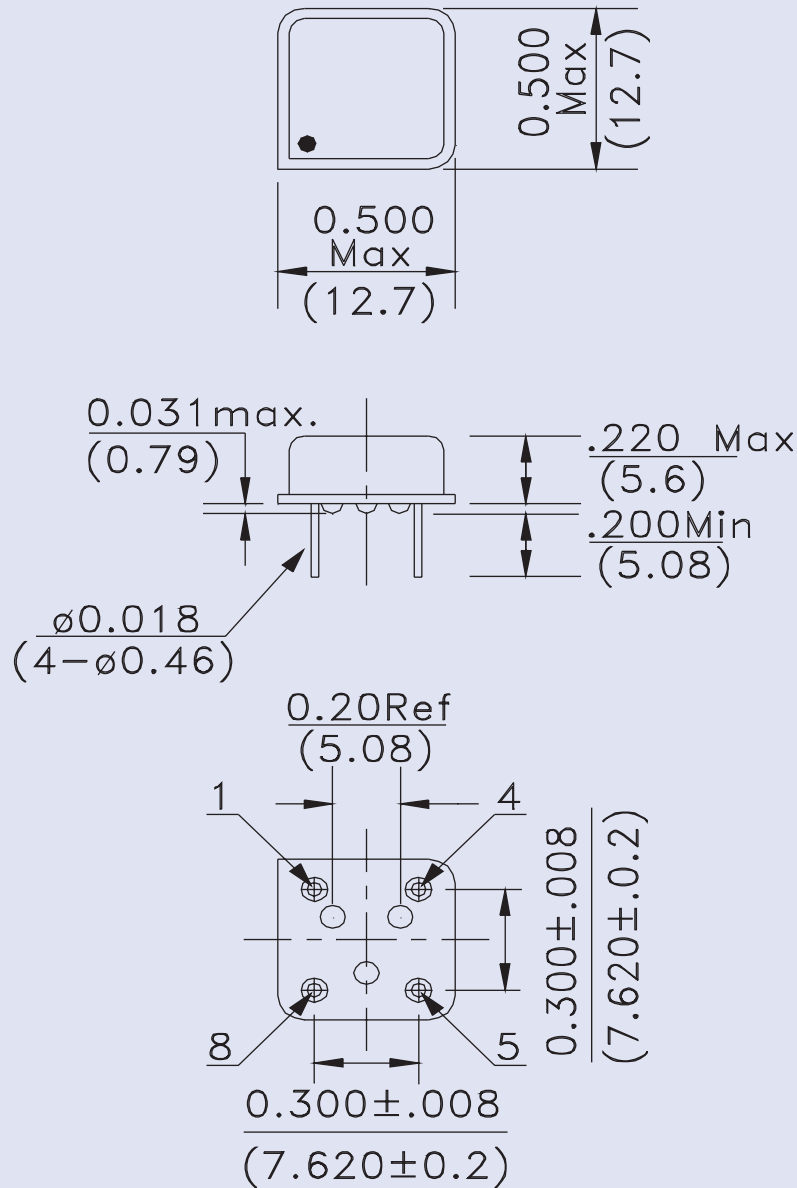


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12.7 x 12.7 x 5.6mm

## OUTLINE DIMENSIONS:



PIN	FUNCTION
1	NC or Tri-state Enable/
4	GND/Case
5	Output
8	VDD

Dimensions: inches (mm)

**ATTENTION:** Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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