HALF-SIZE DIP LOW VOLTAGE 5.0V CRYSTAL CLOCK OSCILLATOR

ACH Series

12.7 x 12.7 x 5.6mm

Pb RoHS Compliant

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 - □ - □ - □ - □ - □ - □ - □

Temperature Options	
D	-10°C to +60°C
E	-20°C to +70°C
F	-30°C to +70°C
N	-30°C to +85°C
L	-40°C to +85°C

Symmetry Options	
S	45/55%@1/2Vdd
T	47.5/52.5%@1/2Vdc
S1	45/55@1.4Vdc
T1	45.5/52.5@1.4Vdc

Packaging	
Blank	Tube
TY	Tray

Freq. Stability	
Y	±10 ppmmax.
J	±20 ppm max.
R	±25 ppm max.
K	±30 ppm max.
H	±35 ppm max.
C	±50 ppm max.

Tristate Enable Funct	
A	Tristate Function

50pF Option	
50	50pF

Value Added Option	
G	Gull Wing
G2	Gull Wing
GHT	Gull Wing Reflow
Q30	0.30(7.62)
Q25	0.25(6.35)
Q20	0.20(5.08)
Q15	0.15(3.81)
Q10	0.10(2.54)

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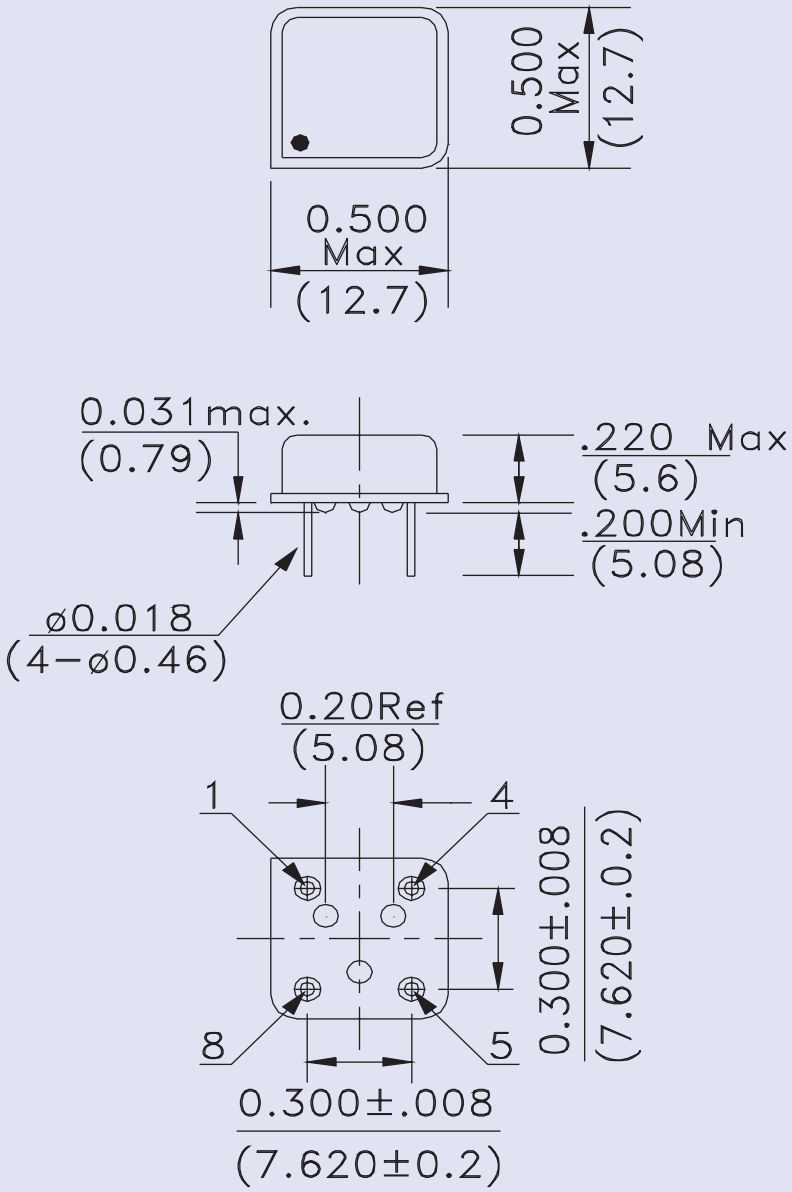
OUTLINE DIMENSIONS:



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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