HALF SIZE DIP LOW VOLTAGE 5.0V CRYSTAL CLOCK OSCILLATOR

ACH Series

ESD Sensitive

Pb RoHS/RoHS II Compliant

12.7 x 12.7 x 5.6mm

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

FEATURES:

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

APPLICATIONS:

- Microprocessors.
- Digital circuit.

STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		0.032768		200.000	MHz	
Operating Temperature		0		+70	°C	See options
Storage Temperature		-55		+125	°C	
Overall Frequency Stability		-100		+100	ppm	See options
Supply Voltage (Vdd)		4.5	5.0	5.5	V	
Input Current	32.768kHz ~ 23.999MHz			30	mA	
	24.000MHz ~ 49.999MHz			45		
	50.000MHz ~ 79.999MHz			70		
	80.000MHz ~ 200.999MHz			85		
Symmetry (@ 1/2Vdd)	32.768kHz ~ 49.999MHz	45		55	%	See options
	50.000MHz ~ 200.000MHz	40		60		
Rise and Fall Time (Tr/Tf)	32.768kHz ~ 1.999MHz			40	ns	
	2.000MHz ~ 24.000MHz			10		
	24.001MHz ~ 200.000MHz			5		
Output Load	32.768kHz ~ 79.999MHz			15	pF	See options
				10	TTL	
	80.000MHz ~ 200.000MHz			15	pF	
				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
	VIL			0.8	V	"0": Output disable (Hi Z)
Output Enable time				4	ms	For option A only
Output Disable time				100	ns	For option A only
Start-up Time			1	10	ms	

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

ABRACON LLC
The Power of Linking Together

5101 Hidden Creek Lane Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sale please visit:
www.abracon.com

REVISED: 11.15.2016

ABRACON IS ISO9001-2008 CERTIFIED

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ACH Series

Pb RoHS/RoHS II Compliant

12.7 x 12.7 x 5.6mm

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ACH-[ ]MHz-[ ]-[ ]-[ ]-[ ]-[ ]-[ ]-[ ]

Frequency in MHz
e.g. 24.576MHz
14.31818MHz
26.000MHz

Packaging
Blank: Tube
TY: Tray

Operating Temp.
D: -10°C ~ +60°C
E: -20°C ~ +70°C
F: -30°C ~ +70°C
N: -30°C ~ +85°C
L: -40°C ~ +85°C

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

Symmetry
S: 45/55% @1/2Vdd
T: 47.5/52.5% @1/2Vdd

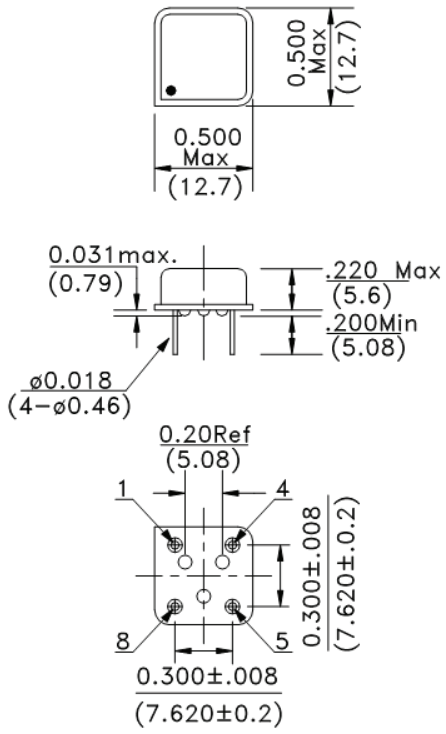
Tri-state
A: Tri-state on pin 1

Output Load
50: 50pF

Pin form
G: Gull Wing
Q25: 0.25" (6.35)
Q20: 0.20" (5.08)
Q15: 0.15" (3.81)

Note:
*: Temp option D only
**: Temp option D, E and 0-70°C only

OUTLINE DIMENSION:



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

Dimensions: inches (mm)

Packaging: 40pcs /tube

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