

# 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:

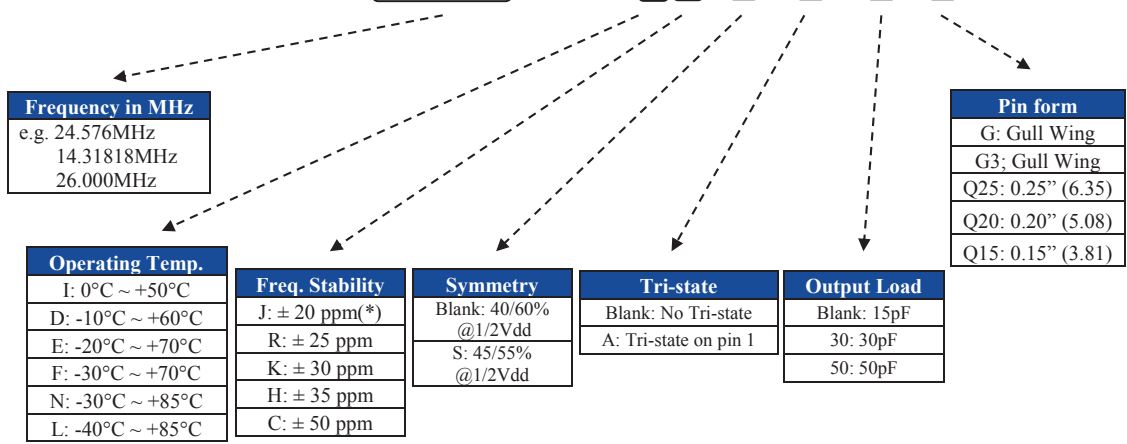
Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		0.400	----	160.000	MHz	
Operating Temperature		0	----	+70	°C	See options
Storage Temperature		-55	----	+125	°C	
Overall Frequency Stability		-100	----	+100	ppm	See options
Supply Voltage (Vdd)		2.97	3.3	3.63	V	
Input Current	0.400MHz ~ 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.



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ACHL Series

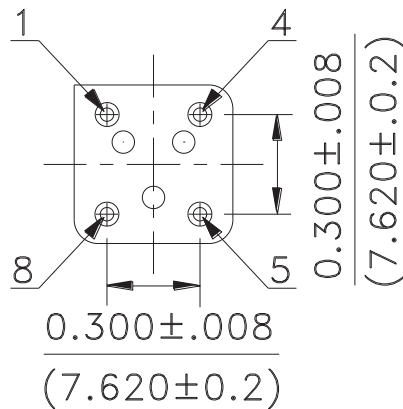
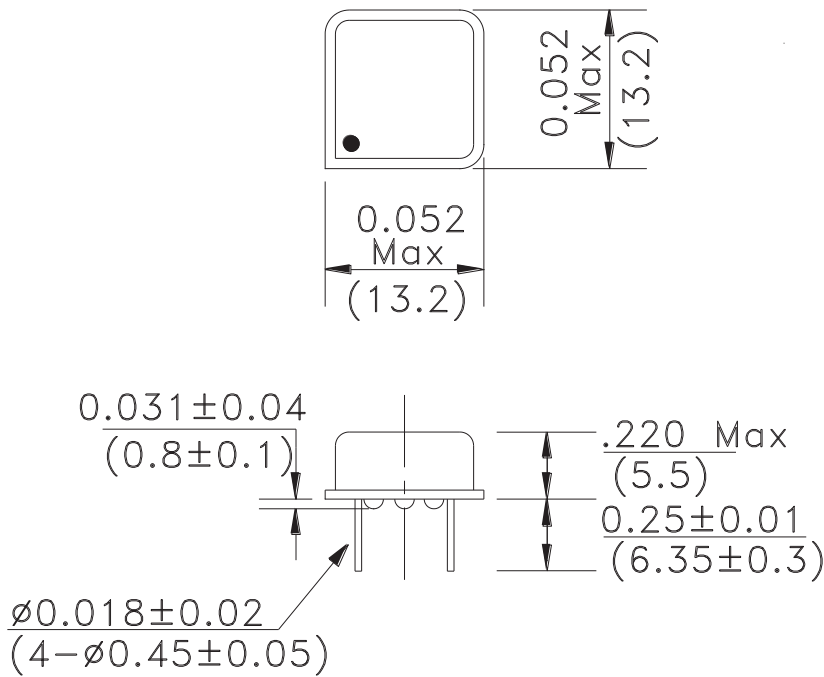


RoHS  
Compliant



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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