## AT49 (HC49US) ULTRA LOW PROFILE

# ABL, ABL2, ABL3



#### **FEATURES:**

- · High reliability, Low cost.
- · Tight stability and extended temperature.

### APPLICATIONS:

- Blue-tooth and wireless applications.
- · Computers, Modems, Communications.

Low profile.(2.0mm max. ABL3)

**RoHS Directive** 

2002/95/EC Compliant

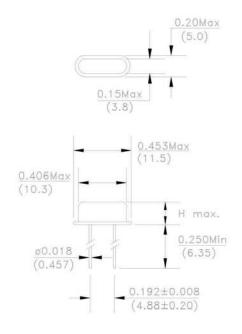
· Proven resistance welded metal package.

ABRACON CORPORATION

- Automotive and industrial.
- Hi-precision TCXO and clock applications.

STANDARD SPECIFICATIONS		
Frequency Range	3.579545MHz - 70.00MHz	
Operation Mode	$3.579545MHz \le F \le 24.0MHz$ (Fundamental)	
CS CS	$24.0MHz < F \le 50.00MHz$ (Fund. AT or BT)	
	24.0MHz < F ≤ 70MHz (Third- Overtone)	
Operating Temperature	0°C to + 70°C (See Options)	
Storage Temperature	-55°C to +125°C	
Frequency Tolerance @ 25°C	±50ppm max. (See Options)	
Frequency stability over temp.	±50ppm max. (See Options)∗	
Equivalent Series Resistance	180 $\Omega$ max. for 3.5MHz ≤ F < 5.0MHz	
(ESR)	120 Ω max. for 5.0MHz ≤ F < 6.0MHz	
	100 $\Omega$ max. for 6.0MHz $\leq$ F $<$ 8.0MHz	
	80 $\Omega$ max. for 8.0MHz $\leq$ F $<$ 9.0MHz	
Fundamental	60 Ω max. for 9.0MHz ≤ F < 10.0MHz	
	50 Ω max. for 10.0MHz ≤ F < 16.0MHz	
	40 Ω max. for 16.0MHz ≤ F ≤ 50.0MHz	
	100 Ω max. for 24.0MHz < F < 32.0MHz	
Third Overtone	80 $\Omega$ max. for 32.0MHz $\leq$ F $\leq$ 70.0MHz	
Shunt Capacitance C <sub>0</sub>	7pF max.	
Load Capacitance C <sub>L</sub>	18pF (See Options)	
Drive Level	1mW max., 100µW correlation	
Aging @ 25°C per Year	±5ppm max.	
Insulation Resistance	500MΩ min. at 100Vdc ±15V	

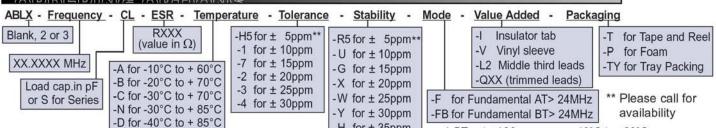
Environmental, and mechanical specifications, see appendix C. Group 1. Tape and Reel, see appendix H.(1,000pcs./reel). Reflow profile, see appendix E. Marking, see appendix G. Recommended handling, see appendix F. Application notes, see appendix A. Value added, see appendix D.



Part Number	H (max.)
ABL	0.138 ( 3.5 )
ABL2	0.099 ( 2.5 )
ABL3	0.079 ( 2.0 )

Dimensions: Inches (mm)

### ORDERING OPTIONS



-H for ± 35ppm

NOTE: Left blank if standard • All specifications and markings subject to change without notice

**ABRACON IS** ISO 9001 / QS 9000 CERTIFIED

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