HC/49US (AT49) MICROPROCESSOR CRYSTAL

ABL Series





> FEATURES:

- High reliability & Low Cost
- Tight stability & extended temperature
- Proven resistance welded metal package

> APPLICATIONS:

- Home electronics
- Computers, modems, and communications
- · Automotive and industrial
- High-precision TCXO and clock applications
- Microprocessors

STANDARD SPECIFICATIONS:

PARAMETERS		
ABRACON P/N	ABL Series	
Frequency	3.579545 MHz to 70 MHz	
Operation Mode	AT cut (Fundamental or 3rd OT) or BT cut (See options) 3.579545MHz - 24.0MHz (Fundamental) (Standard) 24.01 - 70.00MHz (3rd- Overtone) (Standard) 24.01MHz - 50.00MHz (Fund. AT or BT) (See options)	
Operating Temperature	0°C to + 70°C (see options)	
Storage Temperature	- 55°C to + 125°C	
Frequency Tolerance at +25°C	± 50 ppm max. (see options)	
Frequency Stability over the Operating Temp. (Ref to +25°C)	± 50 ppm max. (see options)	
Equivalent Series Resistance	See Table 1	
Shunt Capacitance C₀	7pF max.	
Load Capacitance C _L	18pF (see options)	
Drive Level	1 mW max., 100μW typical	
Aging at 25°C ± 3°C Per Year	± 5ppm max.	
Insulation Resistance	500 M Ω min at 100Vdc ± 15V	
Drive level dependency (DLD), minimum 7 points tested	1μW to 500μW Change in frequency (Maximum - Minimum) over DLD range < ±10ppm Change in ESR (Maximum - Minimum) over DLD range < 25% of Max ESR value Maximum ESR over DLD range < Max ESR value	

TABLE 1: ESR

FREQUENCY (MHz)	ESR (Ω)
3.579 - 4.999 (Fund.)	180
5.000 - 5.999 (Fund.)	120
6.000 - 7.999 (Fund.)	100
8.000 - 8.999 (Fund.)	80
9.000 - 9.999 (Fund.)	60
10.000 - 15.999 (Fund.)	50
16.000 - 50.000 (Fund.)	40
24.01 - 31.999 (3rd O/T)	100
32.000 - 70.00 (3rd O/T)	80





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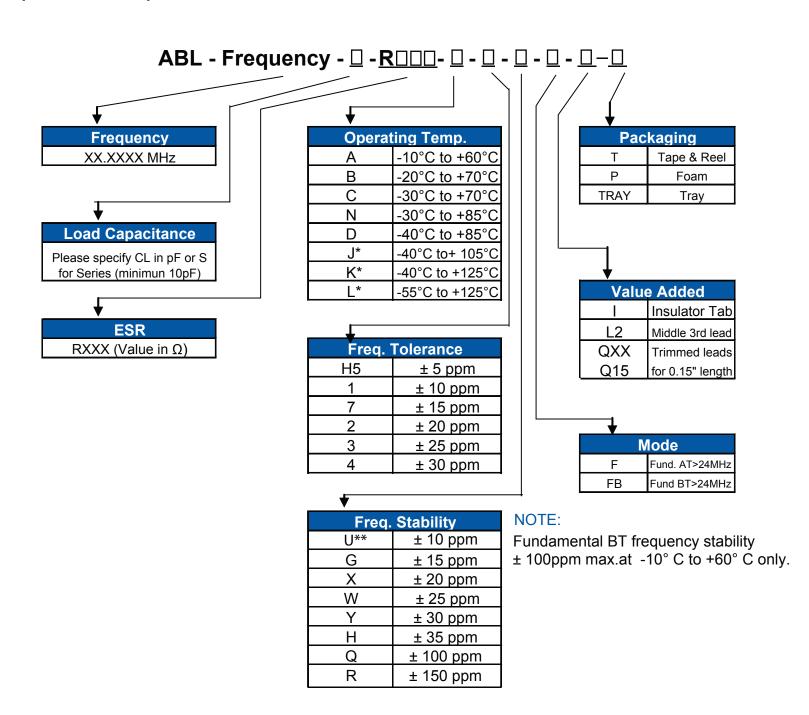
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> OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)



^{*} Frequency stability ±50ppm, ±100ppm, ±150ppm only. Contact ABRACON for tighter frequency stability.

** -10 to +60C only.





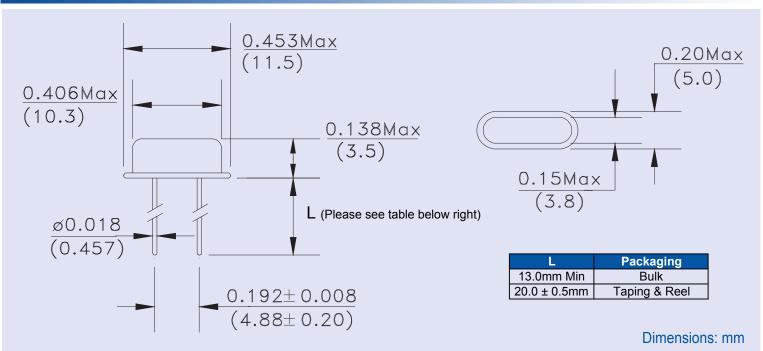
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OUTLINE DRAWING:



TAPE & REEL: T = Tape and reel 1,000pcs/reel

