imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



HC/49US (AT49) MICROPROCESSOR CRYSTAL



ABL Series

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

FEATURES:

• High reliability & Low Cost

- Tight stability & extended temperature
- Proven resistance welded metal package
- **APPLICATIONS:**
- Home electronics
- Computers, modems, and communications
- High-precision TCXO and clock applications

RoHS/RoHS II

• Microprocessors

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	3.579545		70	MHz	
Operation mode	3.579545		33.999		Fundamental AT- cut (Standard)
	34.00		70.00		3 rd OT AT-cut (Standard)
	24.01		50.00		Fundamental AT- cut (See options)
Operating Temperature	0		+70	°C	See options
Storage Temperature	-55		+125	°C	
Frequency Tolerance	-50		+50	ppm	See options
Frequency Stability over the Operating Temperature (ref. to +25°C)	-50		+50	ppm	See options
Equivalent series resistance (R1)	See table 1 below		Ω		
Shunt capacitance (C0)			7	pF	
Load capacitance (CL)		18		pF	See options
Drive Level		100	1000	μW	
Aging @ 25°C per year			±5	ppm	
Insulation Resistance	500			MΩ	(a) 100 Vdc ± 15 V
Drive Level Dependency (DLD, Minimum 7 points tested: from 1µW to 500µW)			±10	ppm	Δfrequency (Max – Min)
			25% of Max ESR	Ω	$\Delta ESR (Max - Min)$
			Max ESR in Table 1	Ω	Max ESR over DLD range

Table 1

	ECD(O) man
Frequency (MHz)	ESR(Ω) max.
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
34.000 - 70.00 (3rd O/T)	80



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: 03.27.2018

ABRACON IS ISO9001-2008 CERTIFIED

HC/49US (AT49) MICROPROCESSOR CRYSTAL

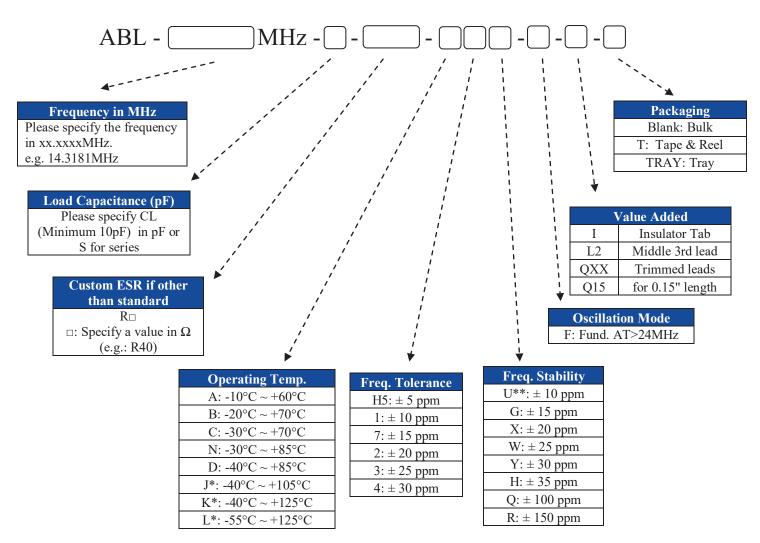
RoHS/RoHS II

11.5 x 5.0 x 3.5 mm

ABL Series

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)



NOTE:

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

** Contact ABRACON for availability of ±10ppm with other operating temperature options.



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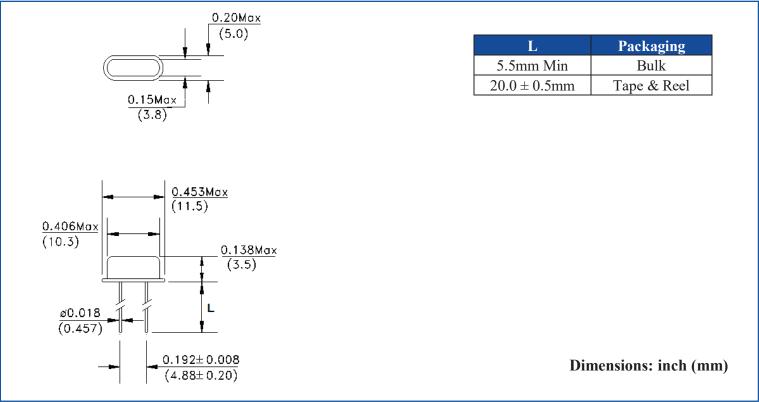
HC/49US (AT49) MICROPROCESSOR CRYSTAL

ABL Series

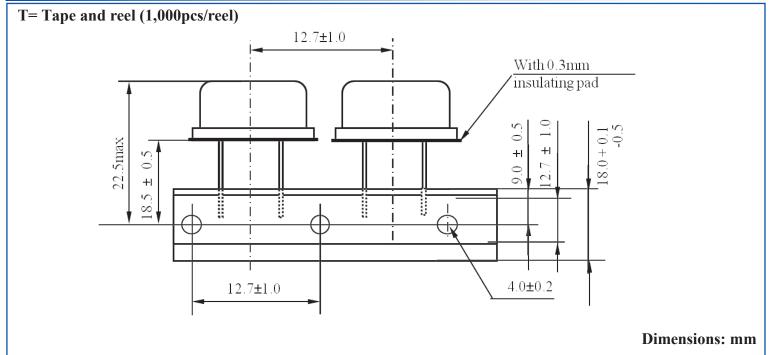
RoHS/RoHS II



OUTLINE DRAWING:



▷ TAPE & REEL:





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