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
- Microprocessors

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	3.579545		70		
Operation mode	3.579545		33.999		Fundamental AT- cut (Standard)
	34.00		70.00	MHz	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			ΜΩ	$@ 100 \text{Vdc} \pm 15 \text{V}$
Drive Level Dependency (DLD, Minimum 7 points tested: from 1µW to 500µW)			±10	ppm	Δfrequency (Max – Min)
			25% of Max ESR	Ω	ΔESR (Max – Min)
			Max ESR in Table 1	Ω	Max ESR over DLD range

Table 1

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



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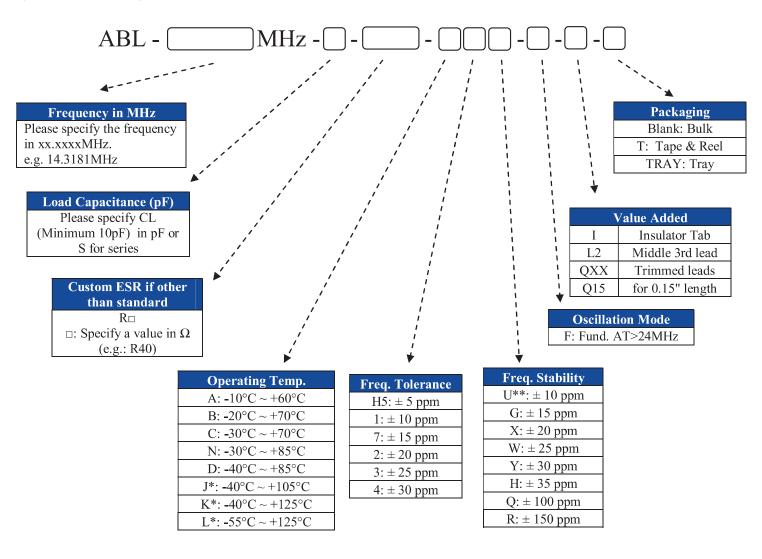
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> OPTIONS AND PART IDENTIFICATION:

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NOTE:

- * Frequency stability ±50ppm, ±100ppm, ±150ppm only. Contact ABRACON for tighter frequency stability.
- ** Contact ABRACON for availability of ±10ppm with other operating temperature options.



REVISED: 03.27.2018

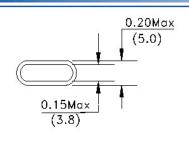
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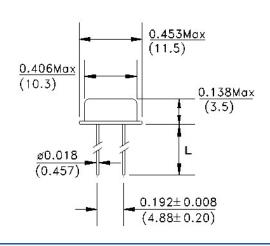




OUTLINE DRAWING:

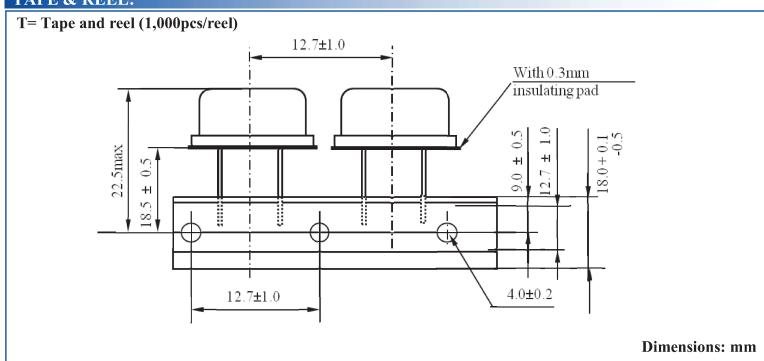


L	Packaging		
5.5mm Min	Bulk		
$20.0 \pm 0.5 mm$	Tape & Reel		



Dimensions: inch (mm)

► TAPE & REEL:





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