HC/49US (AT49) SMD LOW PROFILE CRYSTAL







11.5 x 4.7 x 4.2 mm

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

FEATURES:

- Suitable for RoHS reflow
- Available for tight stability & extended temperature range

> **APPLICATIONS**:

- Computers, Modems, Microprocessors
- · Wireless Applications

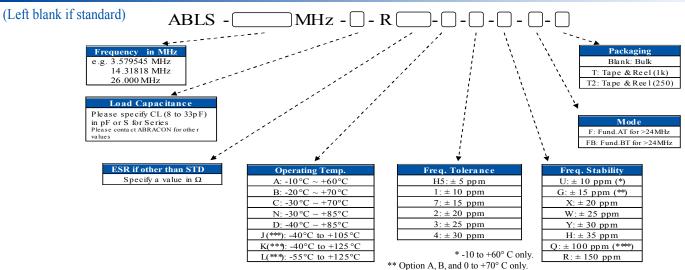
> STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ABLS Series
Frequency	3.579545 MHz to 75 MHz
Operation Mode	AT cut (Fundamental or 3rd OT) or BT cut (See options) 3.579545MHz - 24.0MHz (Fundamental: Standard) 24.01MHz - 75.00MHz (3rd- Overtone: Standard) 24.01MHz - 50.00MHz (Fund. AT or BT: See options)
Operatin g Temperature	0° C to + 70° C (see options)
Storag e Temperatur e	- 55°C to + 125° C
Frequenc y Tolerance at +25°C	± 50 ppm max. (see options)
Frequency Stability over the Operating Temp. (Ref to +25°C)	± 50 ppm max. (see options)
Equivalen t Serie s Resistance	Se e Table 1
Shunt Capacitance C ₀	7pF max .
Load Capacitance C L	18pF (see options)
Drive Leve l	1 mW max., 100 μW typical
Aging at 25°C (first year)	± 5ppm max .
Insulation Resistance	500 M Ω min at 100Vdc ± 15V
Spurious Responses	-3dB max.
Drive level dependency (DLD)	from 1 μW to 500 μW (minimum 7 points tested)

TABLE 1: STANDARD ESR

FREQUENCY (MHz)	ESR (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
24.01 - 31.999 (3rd O/T)	100
32.000 - 75.00 (3rd O/T)	80

> OPTIONS & PART IDENTIFICATION:



*** Frequency stability ±50ppm, ±100ppm, or ±150ppm only.

Contact ABRACON for tighter frequency stability.

**** For Fundamental BT, frequency stability

± 100ppm max. at -10° C to +60° C only.





Visit www.abracon.com for Terms & Conditions of Sale **Revised: 04.07.11** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

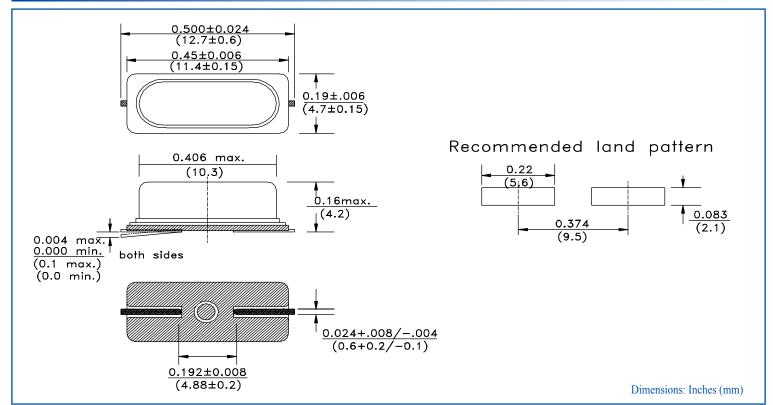
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ABLS



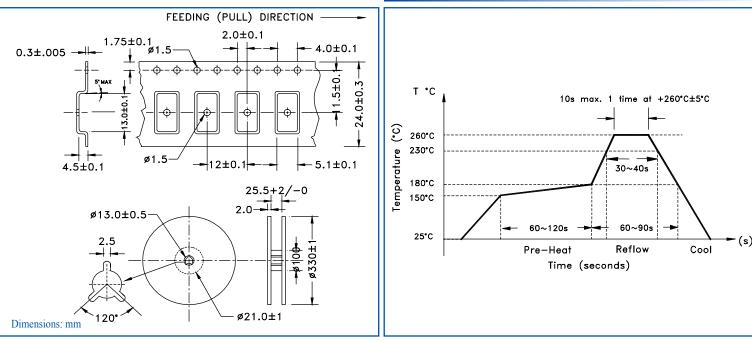


OUTLINE DRAWING:



► TAPE & REEL:

REFLOW PROFILE:





Need a test socket for the ABLS series? To view compatible PRECISION TEST & BURN-IN SOCKETS for these parts, click hereP/N: AXS-1147-02-02

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.



