# HC/49US (AT49) SMD LOW PROFILE CRYSTAL



### 11.5 x 4.7 x 4.2 mm

ABLS

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

#### **FEATURES:**

#### > **APPLICATIONS**:

• Suitable for RoHS reflow

ABLS

- Computers, Modems, Microprocessors
  Wireless Applications
- Available for tight stability & extended temperature range

#### **STANDARD SPECIFICATIONS:**

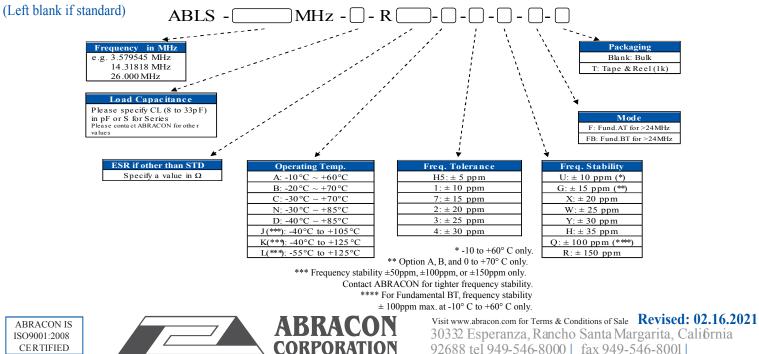
#### PARAMETERS

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	$0^{\circ}$ C to + 70°C (see options)
Storag e Temperatur e	- 55°C to + 125° C
Frequence y Tolerance at +25°C	$\pm$ 50 ppm max. (see options)
Frequency Stability over the Operating Temp. (Ref to +25°C)	$\pm$ 50 ppm max. (see options)
Equivalen t Serie s Resistance	Se e Table 1
Shunt Capacitance C <sub>0</sub>	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 $\Omega$ min at 100Vdc ± 15V
Spurious Responses	-3dB max.
Drive level dependency (DLD )	from 1 $\mu$ W to 500 $\mu$ W (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:**



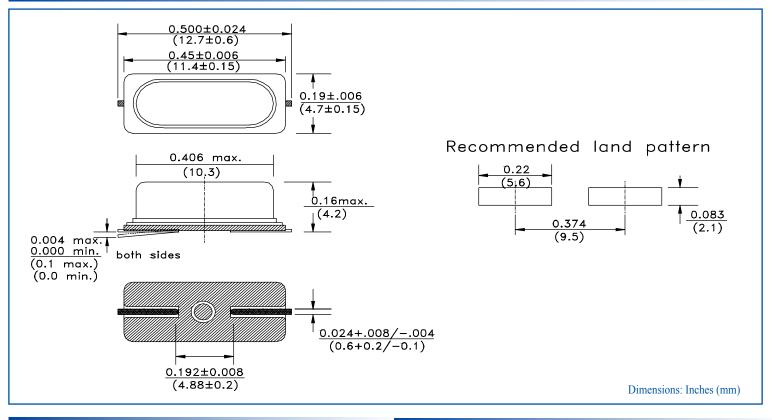
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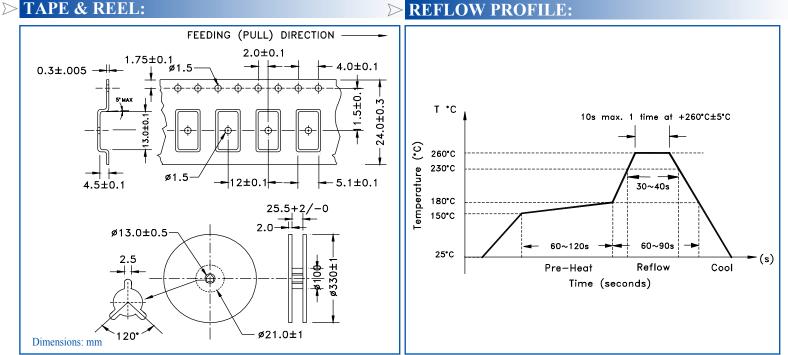
### ABLS



11.5 x 4.7 x 4.2 mm

#### **OUTLINE DRAWING:**







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

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