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

Spurious Responses

Downloaded from Arrow.com.

Drive level dependency (DLD

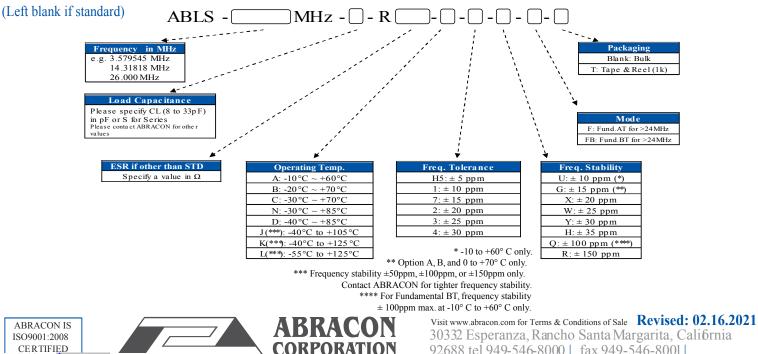
ABRACON P/N	ABLS Series
Frequency	3.579545 MHz to 75 MHz
Operation Mode	AT cut (Fundamental or 3rd OT) or BT cut (See options) 3.579545MHz - 24.0MHz (Fundamental: Standard) 24.01MHz - 75.00MHz (3rd- Overtone: Standard) 24.01MHz - 50.00MHz (Fund. AT or BT: See options)
Operatin g Temperature	0° C to + 70° C (see options)
Storag e Temperatur e	-55° C to $+125^{\circ}$ C
Frequency 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 ₀	7pF max .
Load Capacitance C L	18pF (see options)
Drive Leve 1	1 mW max., 100 µW typical
Aging at 25°C (first year)	± 5ppm max .
Insulation Resistance	500 M Ω min at 100Vdc ± 15V

-3dB max.

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:



from 1 μ W to 500 μ W (minimum 7 points tested)

92688 tel 949-546-8000 fax 949-546-8001

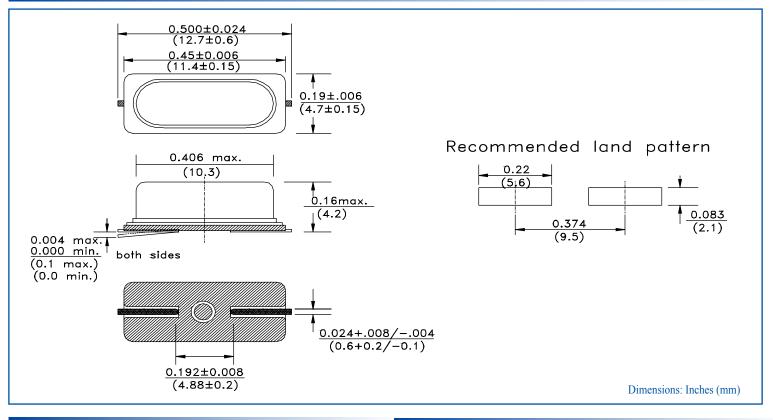
HC/49US (AT49) SMD LOW PROFILE CRYSTAL

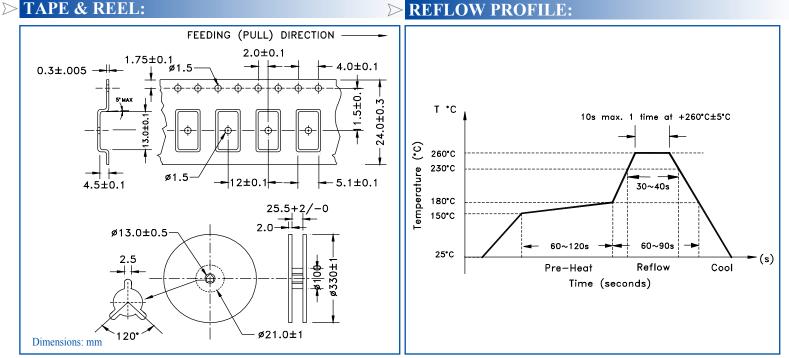
ABLS



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

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.



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 02.16.2021** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 |