MICROPROCESSOR CRYSTALS

AT49 (HC49US) LOW PROFILE SURFACE MOUNT

ABLS, ABLS2, ABLS3





RoHS Directive 11.5 x 4.8 x 4.2 mm 2002/95/EC Compliant

FEATURES:

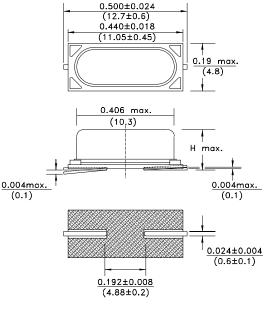
- · High reliability, Low cost.
- Tight stability and extended temperature.
- Low profile. (2.5mm max.)
- · Reflow capable.

APPLICATIONS:

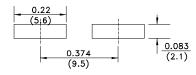
- · Wireless applications.
- Computers, modems, communications.
- · Automotive and industrial.
- Hi-precision TCXO and clock applications.

Heigh	t Options
PN#	H max.
ABLS	0.160 (4.2)
ABLS2	0.130 (3.3)
ABLS3	0.099 (2.5)

STANDARD SPECIFICATIONS	
Frequency Range	3.579545MHz - 70.00MHz
Operation Mode	3.579545 MHz ~ 24.0MHz ~ (Fundamental)
	24.01MHz ~ 50.00MHz ~(Fund. AT or BT)
	24.01MHz ~ 70MHz ~ (3rd- Overtone)
Operating Temperature	0°C to +70°C (See Options)
Storage Temperature	-40°C to +85°C
Frequency Tolerance @ 25°C	±50ppm max. (See Options)
Frequency stability over temp.	±50ppm max. (See Options)∗
Equivalent Series Resistance	180 Ω max. for 3.579MHz \leq F $<$ 5.000MHz
(ESR)	120 Ω max. for 5.000MHz \leq F $<$ 6.000MHz
Fundamental	100 Ω max. for 6.000MHz \leq F $<$ 8.000MHz
	80 Ω max. for 8.000MHz \leq F $<$ 9.000MHz
	60Ω max. for 9.000 MHz \leq F < 10.00 MHz
	50 Ω max. for 10.00MHz \leq F $<$ 16.00MHz
	40 Ω max. for 16.00MHz \leq F \leq 50.00MHz
	100 Ω max. for 24.01MHz \leq F $<$ 32.00MHz
Third Overtone	80 Ω max. for 32.00MHz \leq F \leq 70.00MHz
Shunt Capacitance C ₀	7pF max.
Load Capacitance C _L	18pF (See Options)
Drive Level	1mW max., 100μW correlation
Aging @ 25°C per Year	±5ppm max.
Insulation Resistance;	500MΩ min. at 100Vdc ±15V



Recommended land pattern



Dimensions: Inches (mm)

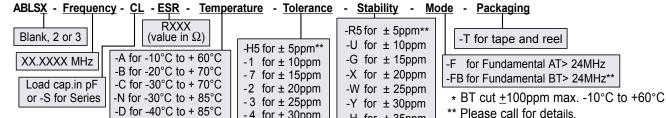
Please see environmental, and mechanical specifications, see appendix C. Group 1. Tape and Reel, see appendix H.(1,000pcs./reel)

Marking, see appendix G. Reflow profile, see appendix E.

Application notes, see appendix A.

Recommended handling, see appendix F.

ORDERING OPTIONS



NOTE: Left blank if standard • All specifications and markings subject to change without notice

-H for ± 35ppm

-4 for \pm 30ppm

ABRACON IS ISO 9001 / QS 9000 **CERTIFIED**

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