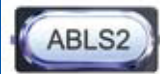


HC/49US (AT49) LOW PROFILE SURFACE MOUNT MICROPROCESSOR CRYSTAL

ABLS2



RoHS
Compliant



11.4 x 4.7 x 3.3 mm

Reduced height to 3.3mm

FEATURES:

- Suitable for RoHS compliant reflow
- Low height reduced to 3.3mm
- Available suitable for thin equipment
- Tight stability & extended temperature

APPLICATIONS:

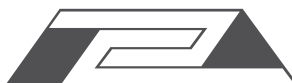
- Computers, Modems, Microprocessors
- Automotive and Industrial *
- Wireless Applications

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	3.579545	-----	24.00	MHz	Fundamental AT (Standard)
	24.01	-----	50.00		Fundamental AT or BT (See options)
	24.01	-----	70.00		3 rd Overtone (Standard)
Operation Mode	Fundamental or 3 rd Overtone				
Operating Temperature	0	-----	+70	°C	See options
Storage Temperature	-55	-----	+125	°C	
Frequency Tolerance @+25°C	-50	-----	+50	ppm	See options
Frequency Stability over the Operating Temperature (ref. to +25°C)	-50	-----	+50	ppm	See options (For BT cut, ±100ppm max.at -10° C to +60° C only)
Equivalent series resistance (R1)	See table 1 below			Ω	
Shunt capacitance (C0)	-----	-----	7	pF	
Load capacitance (CL)	-----	18	-----	pF	Standard (See options if other than STD)
Drive Level	-----	100	1000	μW	
Aging	-5	-----	+5	ppm	@25°C±3°C First year
Insulation Resistance	500	-----	-----	MΩ	@ 100Vdc ± 15V
Drive level dependency (DLD)	Minimum 7 points tested: from 1μW to 500μW. Change in frequency (Maximum - Minimum) over DLD range < ±10ppm Change in ESR (Maximum - Minimum) over DLD range < 25% of Max ESR value. Maximum ESR over DLD range < Max ESR value.				

TABLE 1: ESR

FREQUENCY (MHz)	ESR (Ω)
3.579545 - 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 - 70.00 (3rd O/T)	80

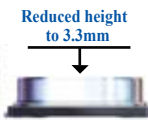


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ABLS2



RoHS
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11.4 x 4.7 x 3.3 mm

Options and Part Identification

(left blank if standard)

ABLS2 - MHz - - - - - -

Frequency in MHz

Please specify the frequency in MHz. e.g. 14.31818MHz

Load Capacitance (pF)

Please specify CL (Minimum 10pF) in pF or S for series

Custom ESR if other than standard

R□
□: Specify a value in Ω (e.g.: R40)

Operating Temp.

A: -10°C ~ +60°C

B: -20°C ~ +70°C

C: -30°C ~ +70°C

N: -30°C ~ +85°C

D: -40°C ~ +85°C

J*: -40°C ~ +105°C

K*: -40°C ~ +125°C

L*: -55°C ~ +125°C

Freq. Tolerance

H5: ± 5 ppm

1: ± 10 ppm

7: ± 15 ppm

2: ± 20 ppm

3: ± 25 ppm

4: ± 30 ppm

Oscillation Mode

F: Fund. AT>24MHz

FB: Fund. BT>24MHz

Freq. Stability

U**: ± 10 ppm

G: ± 15 ppm

X: ± 20 ppm

W: ± 25 ppm

Y: ± 30 ppm

H: ± 35 ppm

Q: ± 100 ppm

R: ± 150 ppm

NOTE: Fundamental BT frequency stability ± 100ppm max. at -10° C to +60° C only.

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

Contact ABRACON for tighter frequency stability.

** -10 to +60C only.

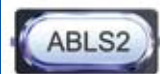


HC/49US (AT49) LOW PROFILE SURFACE MOUNT MICROPROCESSOR CRYSTAL

ABLS2

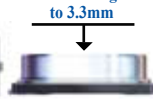


RoHS
Compliant

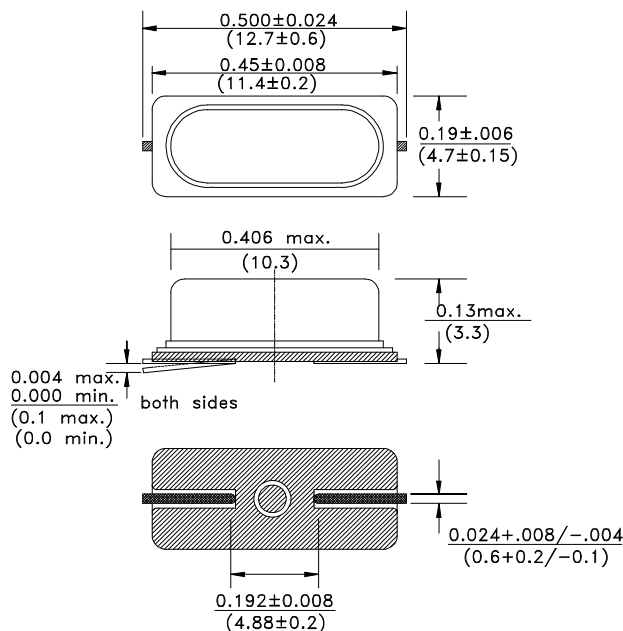


11.4 x 4.7 x 3.3 mm

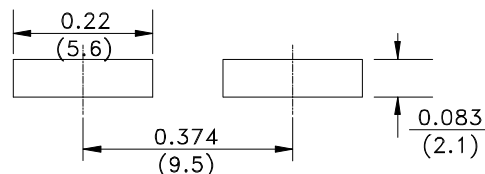
Reduced height to 3.3mm



OUTLINE DRAWING:

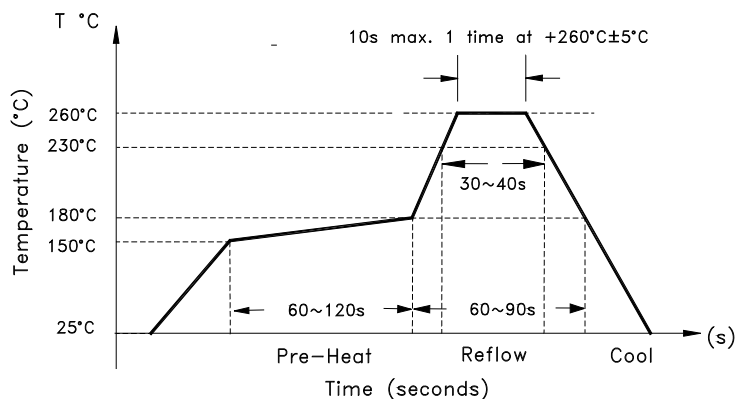
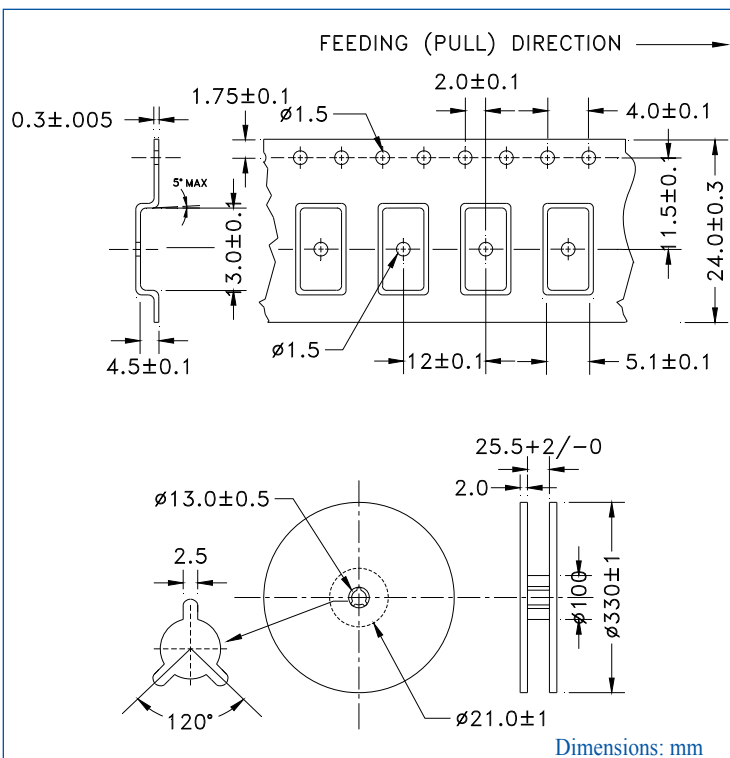


Recommended land pattern



TAPE & REEL: T = tape and reel (1000pcs/reel)

Reflow Profile



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Revised: 03.31.11

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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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