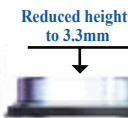


HC/49US (AT49) LOW PROFILE SURFACE MOUNT MICROPROCESSOR CRYSTAL

ABLS2



RoHS
Compliant



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.

** Contact ABRACON for availability of ±10ppm with other Operating Temperature options.

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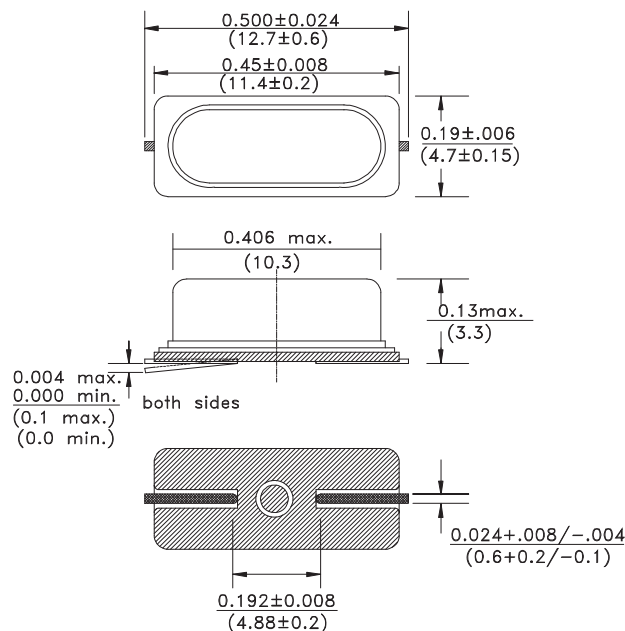
RoHS
Compliant



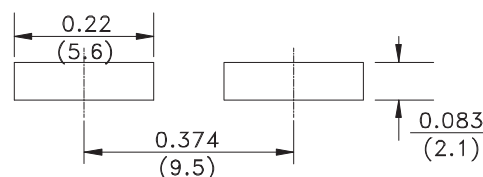
11.4 x 4.7 x 3.3 mm

Reduced height to 3.3mm

OUTLINE DRAWING:

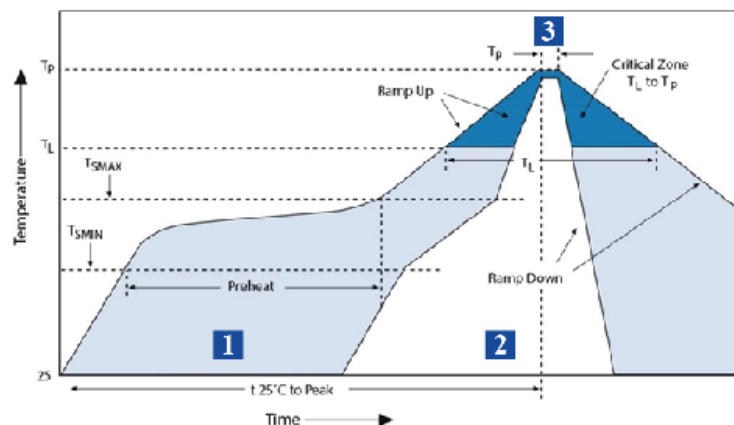
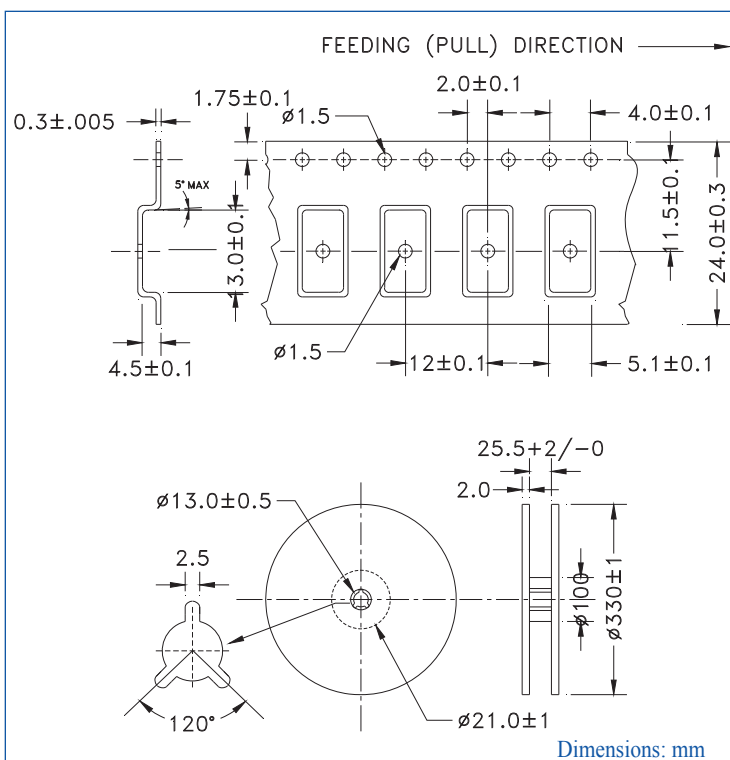


Recommended land pattern



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

Reflow Profile



Zone	Description	Temperature	Time
1	Preheat	T _{SMIN} ~ T _{SMAX} 150°C ~ 180°C	60 ~ 120 sec.
2	Reflow	T _L 230°C	30 ~ 40 sec.
3	Peak Heat	T _P 260°C	10 sec. MAX

ATTENTION: Abracon 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 is required. Please contact Abracon for more information.