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

ABLS3





11.5 x 4.8 x 2.5 mm

FEATURES:

- Suitable for reflow
- Low height reduced to 2.5mm
- Suitable for thin equipment
- · Tight stability & extended temperature

> APPLICATIONS:

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

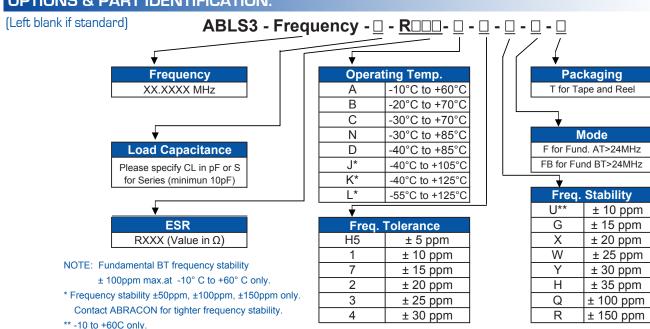
PARAMETERS ABRACON P/N **ABLS3 Series** Frequency 3.579545 MHz to 70 MHz **Operation Mode** AT cut (Fundamental or 3rd OT) or BT cut (See options) 3.579545MHz - 24.0MHz (Fundamental) (Standard) 24.01 - 70.00MHz (3rd- Overtone) (Standard) 24.01MHz - 50.00MHz (Fund. AT or BT) (See options) **Operating Temperature** 0°C to + 70°C (see options) Storage Temperature - 55°C to + 125°C Frequency Tolerance at +25°C ± 50 ppm max. (see options) Frequency Stability over the Operating Temp. (Ref to +25°C) ± 50 ppm max. (see options) **Equivalent Series Resistance** See Table 1 Shunt Capacitance Co 7pF max. Load Capacitance C_L 18pF (see options) 1 mW max., 100µW correlation **Drive Level** Aging at 25°C ± 3°C Per Year ± 5ppm max. Insulation Resistance 500 M Ω min at 100Vdc ± 15V Drive level dependency (DLD) from 1µW to 500µW (minimum 7 points tested)

TABLE 1: ESR

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

- 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

OPTIONS & PART IDENTIFICATION:

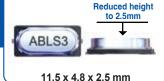




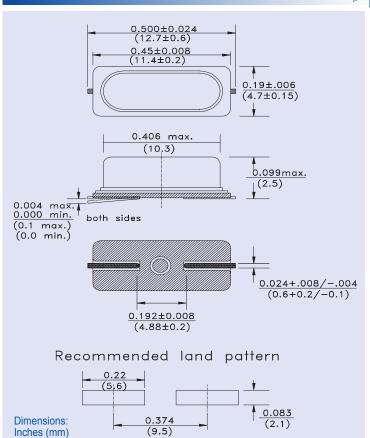
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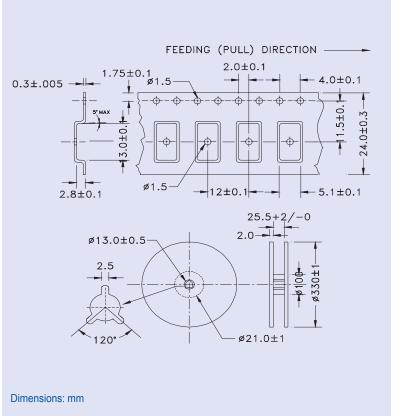




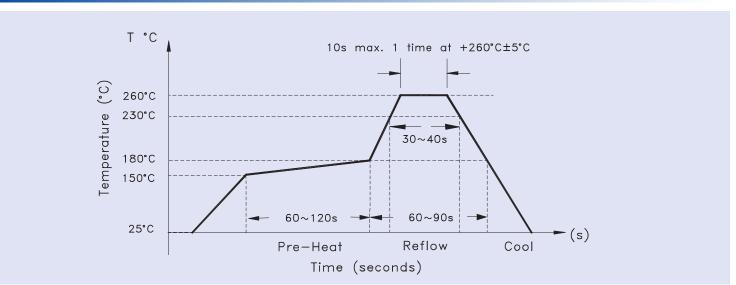
OUTLINE DRAWING:



TAPE & REEL: T= tape and reel (1,000pcs/reel)



REFLOW PROFILE:



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