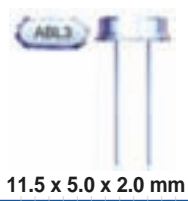


# HC/49US (AT49) MICROPROCESSOR CRYSTAL

ABL3 Series



RoHS  
Compliant



11.5 x 5.0 x 2.0 mm

## FEATURES:

- Reduced height at 2.0mm
- High reliability & Low Cost
- Tight stability & extended temperature
- Proven resistance welded metal package

## APPLICATIONS:

- Home electronics
- Computers, modems, and communications
- Automotive and industrial
- High-precision TCXO and clock applications
- Microprocessors

## STANDARD SPECIFICATIONS:

### PARAMETERS

ABRACON P/N	ABL3 Series
Frequency	3.579545 MHz to 70 MHz
Operation Mode	AT strip (see options) 3.579545 MHz - 24.0 MHz (Fundamental) 24.01 - 50.00 MHz (Fund. AT or BT) 24.01 - 70.00 MHz (3rd - Overtone)
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 C <sub>0</sub>	7pF max.
Load Capacitance C <sub>L</sub>	18pF (see options)
Drive Level	1 mW max., 100µW typical
Aging at 25°C ± 3°C Per Year	± 5ppm max.
Insulation Resistance	500 MΩ min at 100Vdc ± 15V
Drive level dependency (DLD), minimum 7 points tested	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)
3.579 - 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

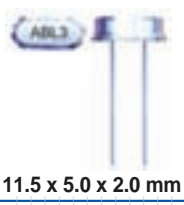


# HC/49US (AT49) MICROPROCESSOR CRYSTAL

ABL3 Series



RoHS  
Compliant



11.5 x 5.0 x 2.0 mm

▷ TAPE & REEL: T = Tape and reel 1,000pcs/reel

