

# AT-CUT LOW COST CERAMIC SMD CRYSTAL

ABM42CA

ABM42CA

4.0 x 2.5 x 1.2 mm



RoHS  
Compliant

## FEATURES:

- Industrial standard package 4.0x2.5, 2 pads
- Ideal for Cost Sensitive Commercial Electronics
- Suitable for High Volume Applications

## APPLICATIONS:

- Laptop computers
- Computer peripherals
- Home network modem

## STANDARD SPECIFICATIONS:

### PARAMETERS

ABRACON P/N:	ABM42CA Series
Frequency range:	12.0 MHz to 48 MHz
Operation Mode:	AT-cut (Fundamental for <36MHz, 3rd OT for >36MHz)
Operating temperature:	-10°C to + 60°C (see options)
Storage temperature:	-40°C to +85°C
Freq. Tolerance at +25° C:	± 30ppm max. (Contact ABRACON for tighter tolerance)
Freq. stability over operating temperature (Ref to +25° C):	± 50ppm max. (Contact ABRACON for tighter stability)
Equivalent series resistance:	See Table 1
Shunt capacitance C0:	7pF max
Load capacitance CL:	18pF (see option)
Drive Level:	100uW max
Aging @ 25°C per year:	±10ppm max
Insulation Resistance:	500Mohms min at 100Vdc ± 15V

TABLE 1

Frequency (MHz)	ESR (Ω)
12.000 - 19.999	80
20.000 - 25.999	70
26.000 - 36.000	50
36.001 - 48.000	Contact ABRACON

### Test Condition

Parts shall be tested under the condition of +20±15°C of the temperature, +65%±20%RH of the humidity unless the standard condition of +25±2°C of the temperature, +65%±5%RH of the humidity is specified.

## OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ABM42CA - Frequency -  -  -

Frequency
XX.XXXX MHz

Load Capacitance
Please specify CL in pF (From 12 to 30)

Operating Temp.	
E	0°C ~ +70°C
B	-20°C ~ +70°C

Packaging	
Blank	Bulk
T	Tape & Reel

**Please NOTE:** This part is not recommended for high reliability applications such as automotive, medical, or safety related applications. Please contact ABRACON for information regarding our high reliability products and for application assistance.

ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED



**ABRACON**  
CORPORATION

Visit [www.abracon.com](http://www.abracon.com) for Terms & Conditions of Sale **Revised: 08.02.07**  
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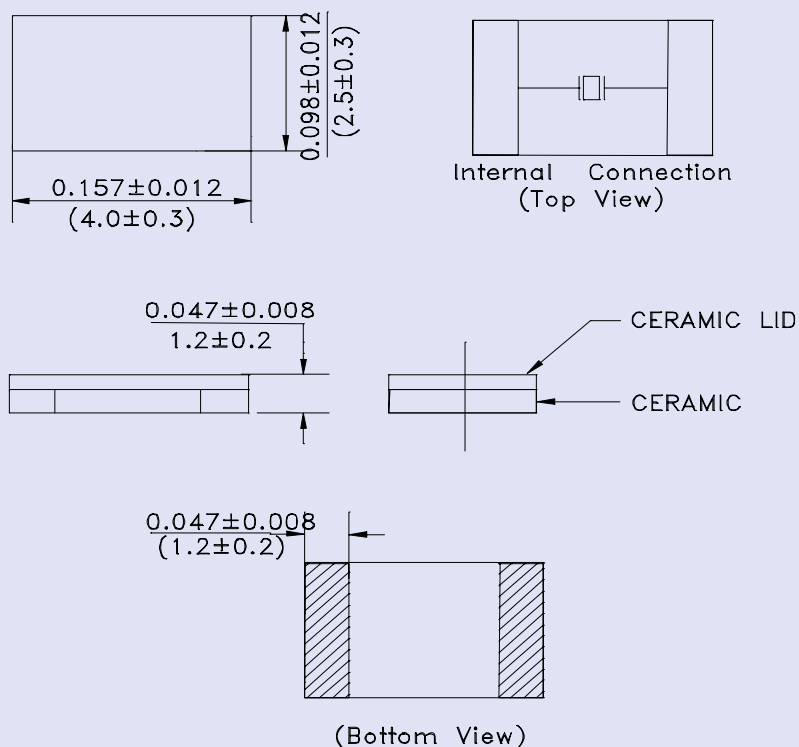
4.0 x 2.5 x 1.2 mm



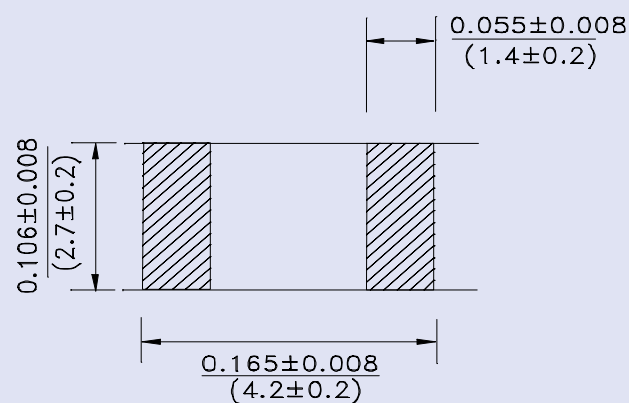
RoHS  
Compliant



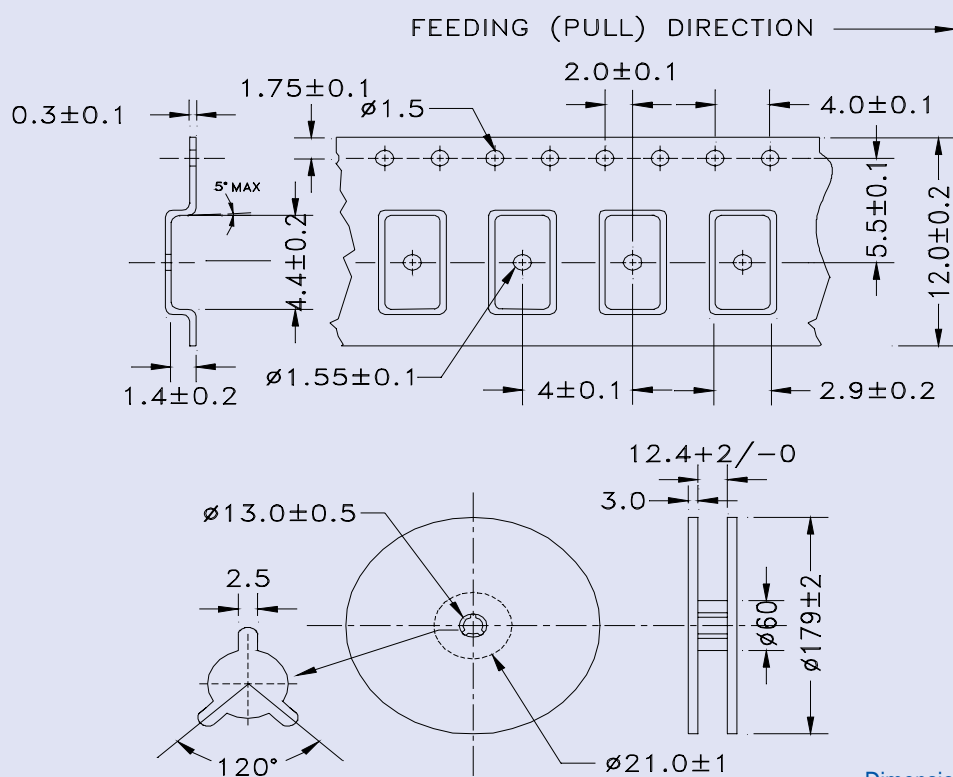
## OUTLINE DRAWING:



## Recommended Land Pattern



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



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