SMD MICROPROCESSOR CRYSTAL

ABMC2

RoHS Compliant

11.0 x 5.0 x 2.0 mm

FEATURES:

- 2.0 mm height
- Hermetically sealed package offers high reliability.
- AT cut offers tighter stability
- Resistance welded
- Extended temperature available
- Low frequency in SMD package
- IR Reflow capable

APPLICATIONS:

- PCMCIA applications
- Microprocessors
- Communication equipment, Networking, Thin equipment

STANDARD SPECIFICATIONS:

ABRACON P/N:	ABMC2 Series
Frequency:	3.579545 MHz to 70 MHz
Operation mode:	AT-strip or BT-strip 3.5 MHz - 32.00 MHz (Fundamental AT-cut: Standard) 32.00 MHz - 70.00 MHz (3rd OT AT-cut: Standard) 32.00 MHz - 41.00 MHz (Fundamental AT-cut: See options) 22.00 MHz - 46.00 MHz (Fundamental BT-cut: See options)
Operating temperature:	- 10°C to + 60°C (see options)
Storage temperature:	- 40°C to + 85° C
Frequency tolerance:	± 50 ppm max. (see options)
Frequency stability over the operating temperature (Ref to +25° C):	± 100 ppm max. (see options) ± 100 ppm max. over - 40°C to + 85° C only for BT-cut
Equivalent series resistance (max.):	See Table 1
Shunt capacitance C0:	7.0pF max.
Load capacitance CL:	18.0pF (see option)
Drive level:	100 µW max.
Aging (per year) @ 25° C:	± 5 ppm max.
Insulation resistance:	500 MΩ min. at 100 Vdc ± 15 Vdc

Table 1 Standard ESR

Frequency (MHz)	ESR(Ω) max.
3.500 - 3.999 (AT cut fund.)	180
4.000 - 4.999 (AT cut fund.)	150
5.000 - 5.999 (AT cut fund.)	120
6.000 - 6.999 (AT cut fund.)	100
7.000 - 8.999 (AT cut fund.)	80
9.000 - 12.999 (AT cut fund.)	60
13.00 - 19.999 (AT cut fund.)	50
20.00 - 41.00 (AT cut fund.)	40
22.00 - 46.00 (BT cut)	60
32.00 - 70.00 (3rd O/T)	80

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OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ABMC2 - [ ] MHz - [ ] - R [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

Frequency in MHz
e.g. 24.576MHz
14.31818MHz
26.000MHz

Load Capacitance
Please specify CL in pF or S for Series (minimum 7pF)

ESR
Specify a value in Ω

Operating Temp.

E: 0°C ~ +70°C
B: -20°C ~ +70°C
C: -30°C ~ +70°C
N: -30°C ~ +85°C
D***: -40°C ~ +85°C

*** ± 100 ppm max. over - 40°C to + 85° C only for BT-cut

Freq. Tolerance

1: ± 10 ppm
7: ± 15 ppm
2: ± 20 ppm
3: ± 25 ppm
4: ± 30 ppm

Freq. Stability

U: ± 10 ppm(*)
G: ± 15 ppm(**)
X: ± 20 ppm
W: ± 25 ppm
Y: ± 30 ppm
H: ± 35 ppm
Z: ± 50 ppm

* -10°C to 60°C only
** Temp option E, B, C, and N only

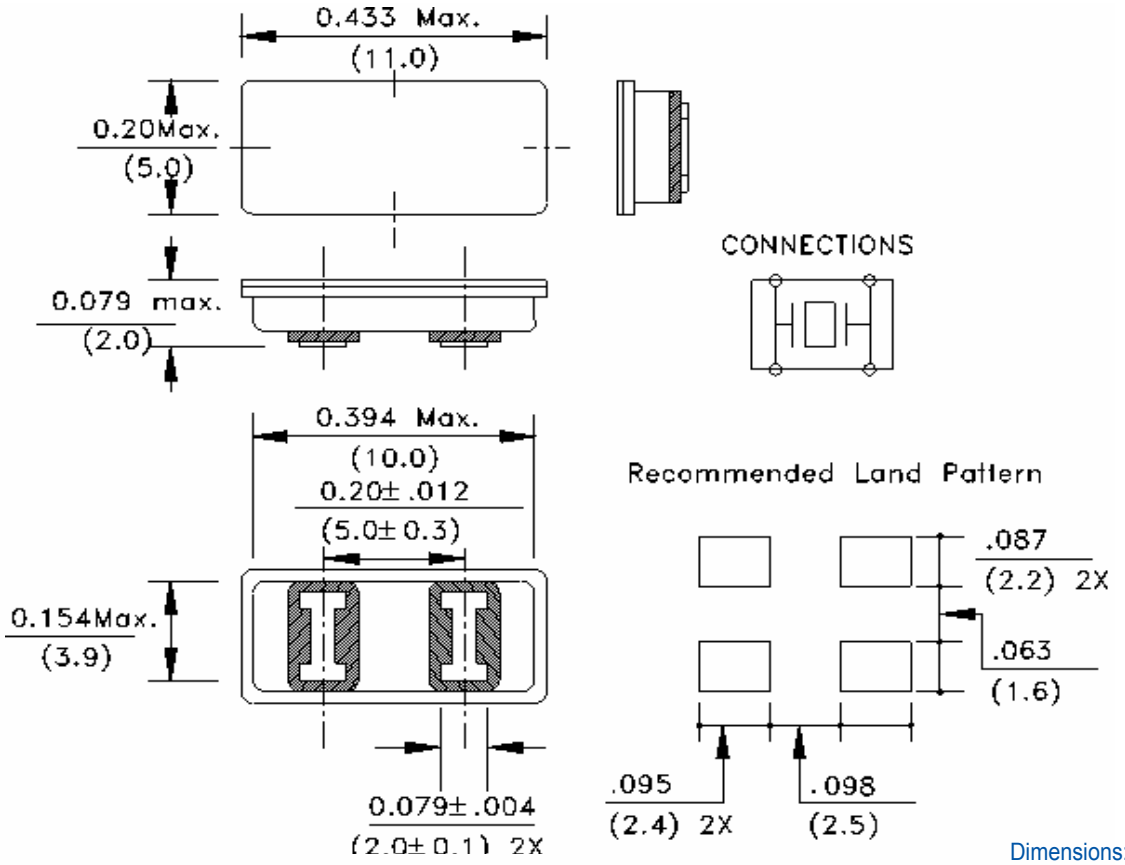
Mode

F: Fund.AT for 32~41MHz
FB: Fund.BT for 22~46MHz

Packaging

Blank: Bulk
T: Tape & Reel

OUTLINE DRAWING:



Dimensions: inch (mm)

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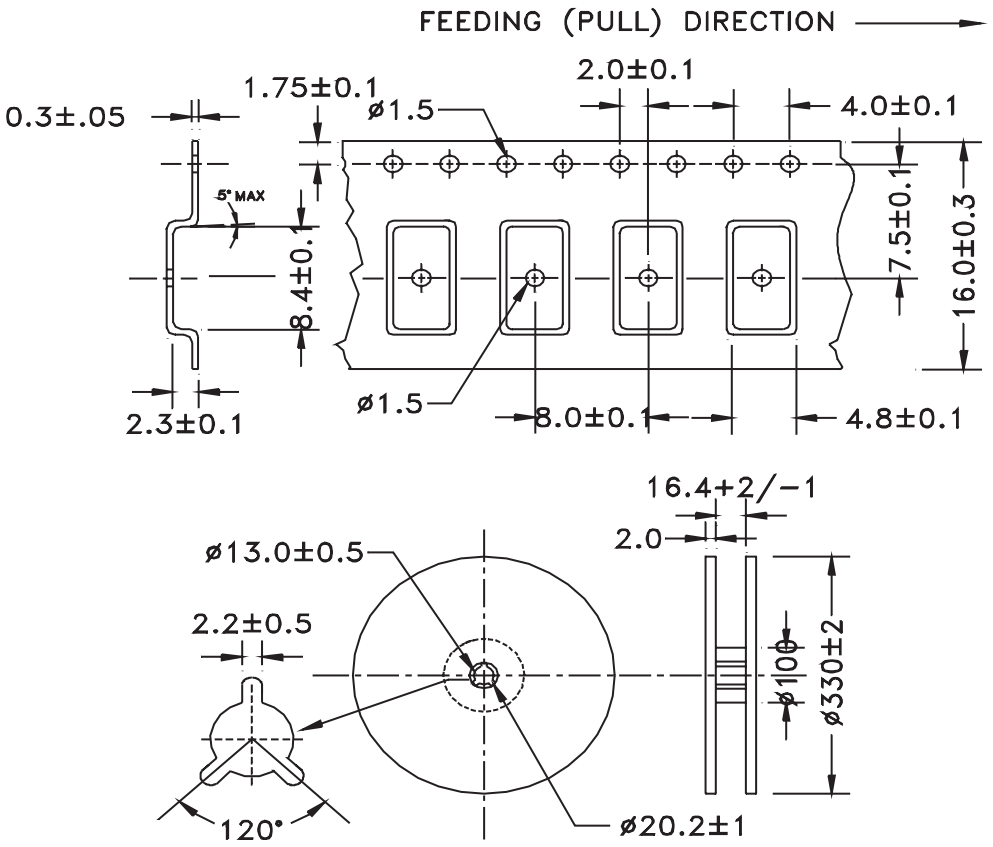
ABMC2

ABMC2

11.0 x 5.0 x 2.0 mm

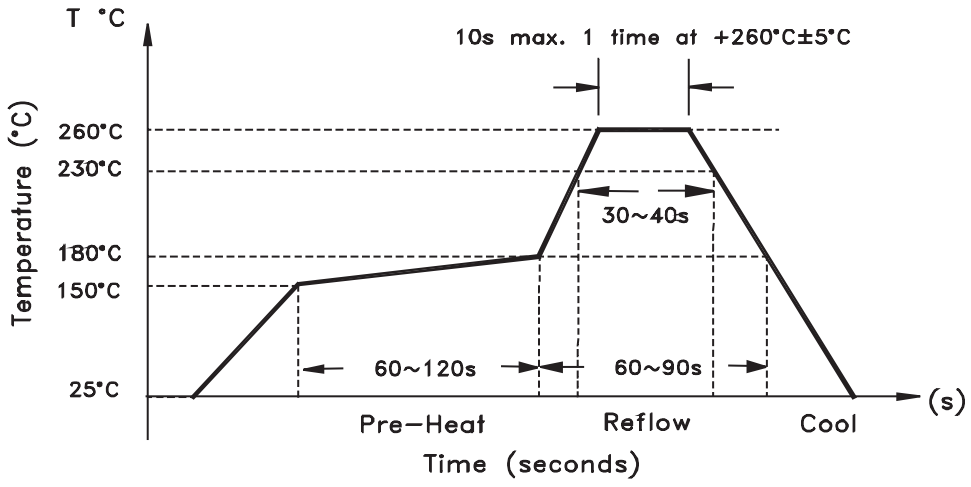
Pb RoHS Compliant

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



Dimensions: mm

REFLOW PROFILE:



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