

# MOLDED PLASTIC SMD MICROPROCESSOR CRYSTAL

**ABSM2**

\*H = Pb in high temperature solder  
(exempt per RoHS 2002/95/EC Annex (7))

**RoHS**  
Compliant

ABSM2

12.5 x 4.6 x 3.7mm

## FEATURES:

- Suitable for RoHS reflow
- Available tight tolerance and temperature stability

## APPLICATIONS:

- Computers, Modems, Microprocessors
- Communication, Test equipment
- PCMCIA

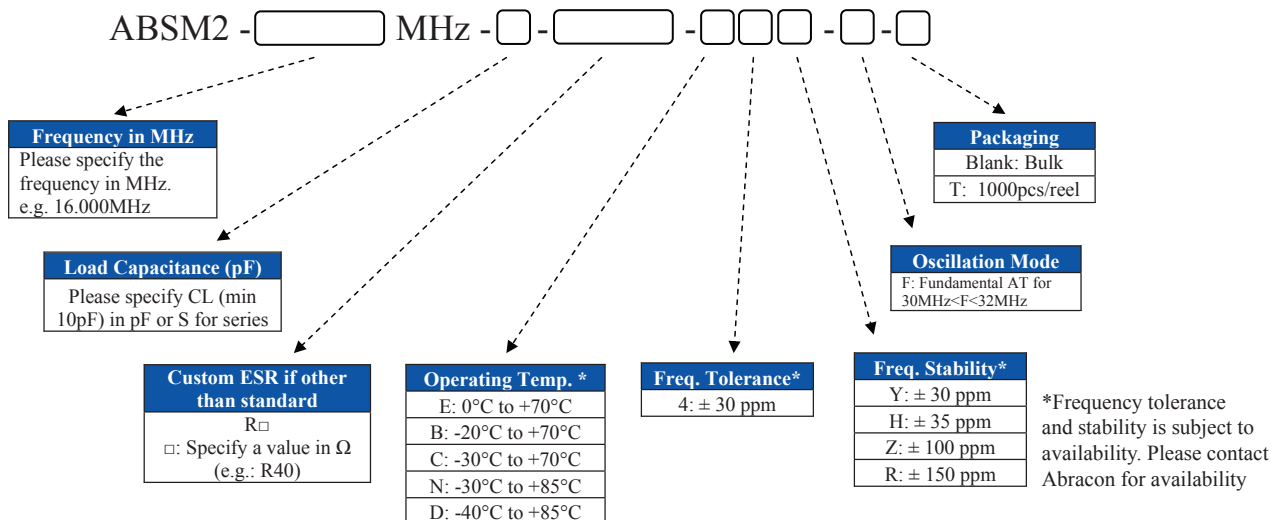
## STANDARD SPECIFICATIONS:

| Parameters                                                          | Minimum                                        | Typical | Maximum | Units | Notes                                    |
|---------------------------------------------------------------------|------------------------------------------------|---------|---------|-------|------------------------------------------|
| Frequency Range                                                     | 3.500                                          | -----   | 70.000  | MHz   |                                          |
| Operation Mode                                                      | Fundamental: <b>Standard</b>                   |         |         | ----- | 3.50 MHz - 30.000 MHz                    |
|                                                                     | 3rd Overtone: <b>Standard</b>                  |         |         | ----- | 30.001 MHz - 70.000 MHz                  |
|                                                                     | Fundamental: <b>Option</b> . See options below |         |         | ----- | 30.001 MHz - 32.000 MHz                  |
| Operating Temperature                                               | -10                                            | -----   | +60     | °C    | See options                              |
| Storage Temperature                                                 | -55                                            | -----   | +125    | °C    |                                          |
| Frequency Tolerance @+25°C                                          | -50                                            | -----   | +50     | ppm   | See options                              |
| Frequency Stability over the Operating Temperature ( ref. to +25°C) | -50                                            | -----   | +50     | ppm   | See options                              |
| Equivalent series resistance (R1)                                   | See table 1 below                              |         |         | Ω     |                                          |
| Shunt capacitance (C0)                                              | -----                                          | -----   | 7.0     | pF    |                                          |
| Load capacitance (CL)                                               | -----                                          | 18.0    | -----   | pF    | Standard (See options if other than STD) |
| Drive Level                                                         | -----                                          | -----   | 100     | μW    |                                          |
| Aging                                                               | -5                                             | -----   | +5      | ppm   | @25°C±3°C<br>First year                  |
| Insulation Resistance                                               | 500                                            | -----   | -----   | MΩ    | @ 100Vdc ± 15V                           |

Table 1. Standard ESR

| Frequency (MHz)                | ESR (Ω) max. |
|--------------------------------|--------------|
| 3.50 - 3.999                   | 200          |
| 4.000 - 5.999                  | 150          |
| 6.000 - 11.999                 | 100          |
| 12.000 - 32.000 (fund)         | 50           |
| 30.000 - 35.999 (3rd overtone) | 100          |
| 33.000 - 70.000 (3rd overtone) | 80           |

## OPTIONS & PART IDENTIFICATION: (Left blank if standard)



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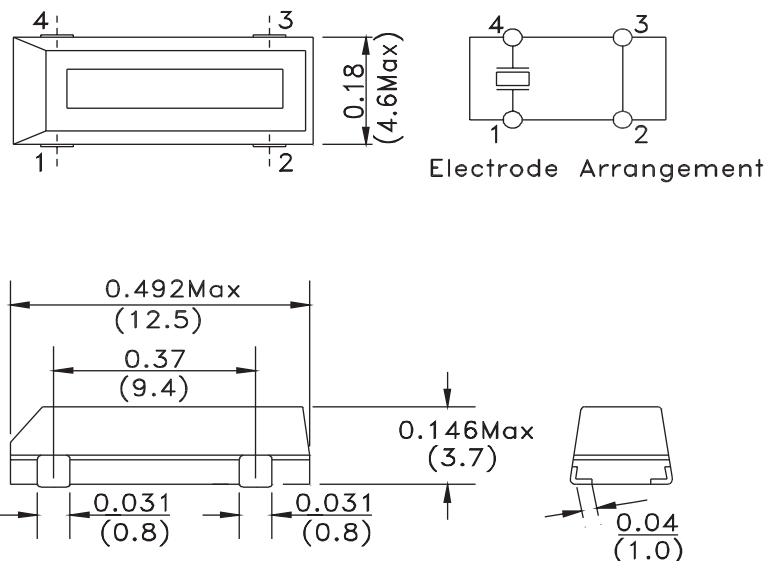
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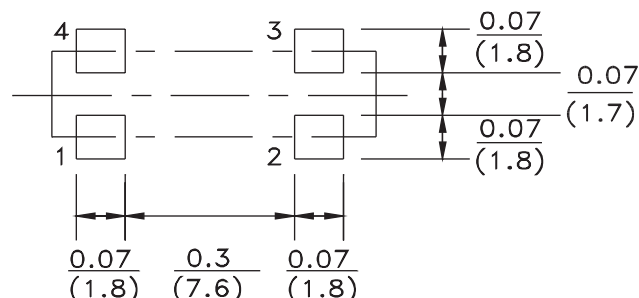
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## OUTLINE DRAWING:

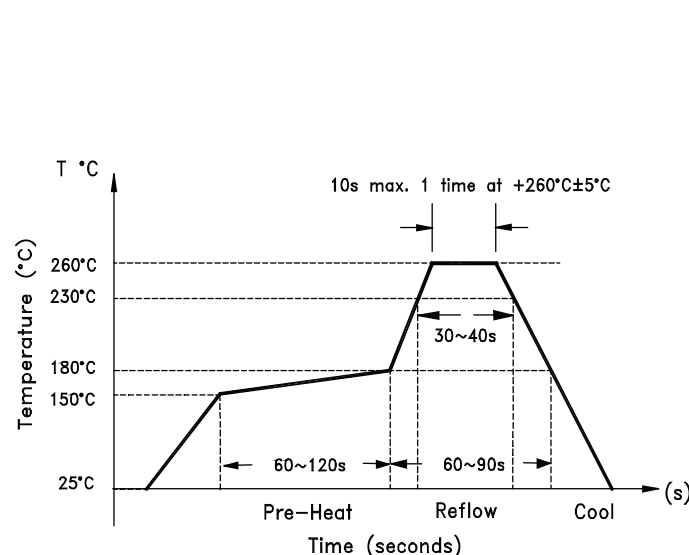
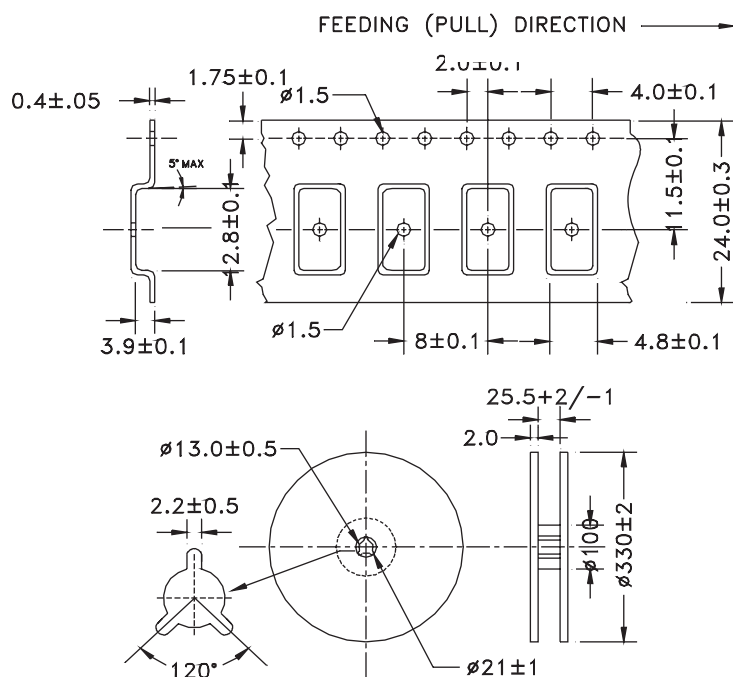


## RECOMMENDED LAND PATTERN



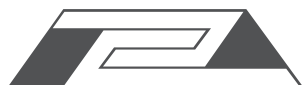
## TAPE & REEL: T=Tape and reel (1000pcs/reel)

## REFLOW PROFILE:



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