# **CERAMIC SMD CRYSTAL**







5.0 X 3.2 X 1.1mm

ABM3B

## ABM3B

#### **FEATURES:**

- Fundamental mode.
- · Suitable for reflow.
- Tight Stability available.
- Ceramic package and metal lid assures high precision and reliability.
- · Seam sealing.

#### > APPLICATIONS:

- Cellular telephones, Pagers.
- Communication and Test equipment.
- High Density applications.
- PCMCIA and wireless applications.

#### **STANDARD SPECIFICATIONS:**

PARAMETERS			
ABRACON P/N	ABM3B Series		
Frequency Range	8.0MHz - 50.0MHz (Fundamental 50.1MHz - 125MHz (3rd overtone)		
Operation Mode	Fundamental or 3rd overtone		
Operating Temperature	- 10°C to + 60°C (see options)		
Storage Temperature	- 40°C to + 85°C		
Frequency Tolerance @ 25°C	± 50 ppm max. (see options)		
Frequency Stability over the Operating Temperature	50 mm man (and antique)		
(Ref to + 25°C)	± 50 ppm max. (see options)		
Equivalent Series Resistance	See table 1		
Shunt Capacitance C0	7 pF max.		
Load Capacitance CL	18 pF (see options)		
Drive Level	100 μW max., 10 μW typical		
Aging (First Year) @ $25^{\circ}$ C $\pm 3^{\circ}$ C	± 5ppm max.		
Insulation Resistance	$500 \mathrm{M}\Omega$ min at $100 \mathrm{Vdc} \pm 15 \mathrm{V}$		

#### **TABLE 1- Standard ESR**

Frequency (MHz)	$\mathbf{ESR}(\Omega)$ max	Frequency (MHz)	ESR( $\Omega$ max)
8.000 - 9.999 (Fund.)	200	16.000 - 50.000 (Fund.)	50
10.000 -11.999 (Fund.)	100	50.001 - 80.000 (3rd OT)	60
12.000 - 15.999 (Fund.)	70	80.001 - 125.000 (3rd OT)	80



## **CERAMIC SMD CRYSTAL**

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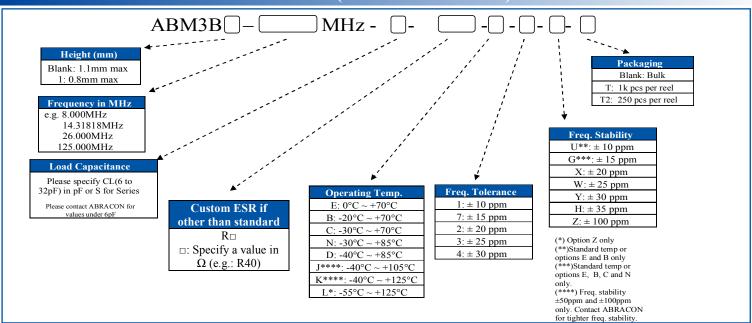


5.0 X 3.2 X 1.1mm

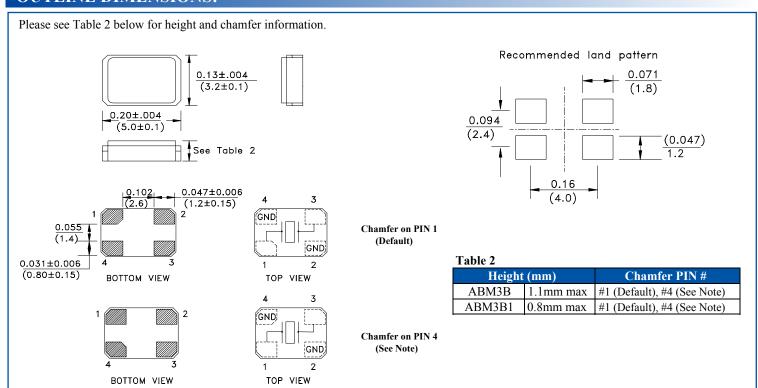
ABM3B

# Compliant

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



#### **OUTLINE DIMENSIONS:**



Note: Due to the availability of raw materials, this part may be manufactured with the chamfer on pin 4. Be advised that this does not affect the electrical characteristics of the crystal in any way.





**Dimension: Inches (mm)** 

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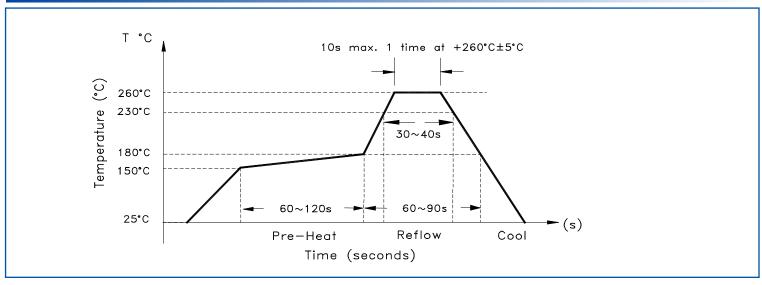




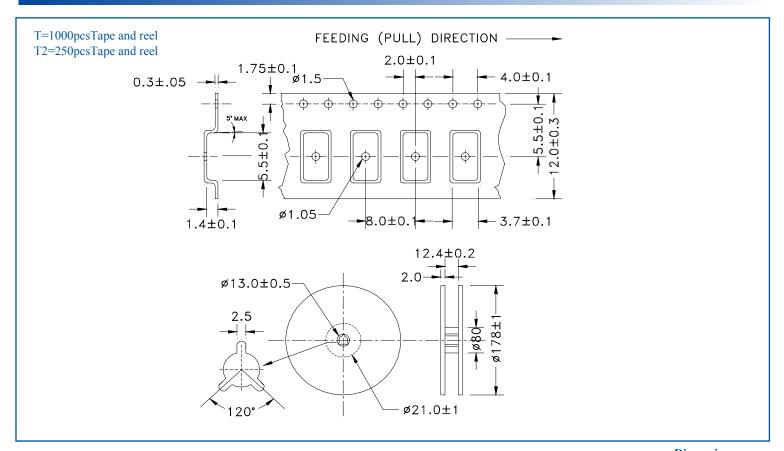
5.0 X 3.2 X 1.1mm

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#### **REFLOW PROFILE:**



#### **TAPE & REEL:**



**Dimension: mm** 

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## **Mouser Electronics**

**Authorized Distributor** 

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#### ABRACON:

ABM3B-40.000MHZ-B2-T ABM3B-14.31818MHZ-B2-T ABM3B-27.000MHZ-B2-T ABM3B-32.000MHZ-B2-T ABM3B-20.000MHZ-B2-T ABM3B-13.824MHZ-B2-T ABM3B-12.288MHZ-B2-T ABM3B-24.000MHZ-B2-T ABM3B-15.360MHZ-B2-T ABM3B-48.000MHZ-B2-T ABM3B-16.384MHZ-B2-T ABM3B-24.576MHZ-B2-T ABM3B-18.432MHZ-B2-T ABM3B-30.000MHZ-B2-T ABM3B-12.000MHZ-B2-T ABM3B-25.000MHZ-B2-T ABM3B-16.000MHZ-B2-T ABM3B-13.000MHZ-B2-T ABM3B-12.000MHZ-10-1-U-T ABM3B-12.288MHZ-10-1-U-T ABM3B-13.000MHZ-10-1-U-T ABM3B-13.824MHZ-10-1-U-T ABM3B-14.31818MHZ-10-1-U-T ABM3B-15.360MHZ-10-1-U-T ABM3B-16.000MHZ-10-1-U-T ABM3B-16.384MHZ-10-1-U-T ABM3B-18.432MHZ-10-1-U-T ABM3B-20.000MHZ-10-1-U-T ABM3B-24.000MHZ-10-1-U-T ABM3B-24.576MHZ-10-1-U-T ABM3B-30.000MHZ-10-1-U-T ABM3B-40.000MHZ-10-1-U-T ABM3B-48.000MHZ-10-1-U-T ABM3B-25.00MHZ-D4Y-T ABM3B-155-12.800MHZ-T ABM3B-26.000MHZ-10-D-1-G-T ABM3B-25.000MHZ-10-1-U-T ABM3B-13.560MHZ-10-1-U-T ABM3B-28.63636MHZ-10-1-U-T ABM3B-29.4912MHZ-10-1-U-T ABM3B-13.500MHZ-10-1-U-T ABM3B-16.800MHZ-10-1-U-T ABM3B-12.800MHZ-10-1-U-T ABM3B-19.200MHZ-10-1-U-T ABM3B-19.800MHZ-10-1-U-T ABM3B-11.0592MHZ-10-1-U-T ABM3B-44.000MHZ-10-1 1-U-T ABM3B-14.7456MHZ-10-1-U-T ABM3B-14.400MHZ-10-1-U-T ABM3B-10.000MHZ-10-1-U-T ABM3B-8.000MHZ-10-1UT ABM3B-8.000MHZ-B2-T ABM3B-29.9079-1-U-T ABM3B-10.000MHZ-10-B-1-U-T ABM3B-29.9079-18-B-1-UT ABM3B-12.000MHZ-22-D3W-T ABM3B-16.384MHz-10-B-1-U-T ABM3B-16.000MHz-B-4-Y-T ABM3B-30.000MHz-B-4-Y-T ABM3B-27.000MHz-10-B-1-U-T ABM3B-30.000MHz-10-B-1-U-T ABM3B-14.31818MHz-10-B-1-U-T ABM3B-16.384MHz-B-4-Y-T ABM3B-19.200MHz-10-B-1-U-T ABM3B-13.000MHz-B-4-Y-T ABM3B-19.200MHz-B-4-Y-T ABM3B-12.000MHz-B-4-Y-T ABM3B-16.934MHz-10-B-1-U-T ABM3B-28.63636MHz-10-B-1-U-T ABM3B-18.432MHz-10-B-1-U-T ABM3B-26.000MHz-10-B-1-U-T ABM3B-20.000MHz-B-4-Y-T ABM3B-24.000MHz-B-4-Y-T ABM3B-25.000MHz-10-B-1-U-T ABM3B-27.000MHz-B-4-Y-T ABM3B-12.288MHz-B-4-Y-T ABM3B-48.000MHz-B-4-Y-T ABM3B-40.000MHz-B-4-Y-T ABM3B-11.0592MHz-B-4-Y-T ABM3B-16.000MHz-10-B-1-U-T ABM3B-14.7456MHz-B-4-Y-T ABM3B-26.000MHz-B-4-Y-T ABM3B-28.63636MHz-B-4-Y-T ABM3B-36.000MHz-10-B-1-U-T ABM3B-13.560MHz-10-B-1-U-T ABM3B-13.000MHz-10-B-1-U-T ABM3B-12.000MHz-10-B-1-U-T ABM3B-13.560MHz-B-4-Y-T ABM3B-8.000MHz-B-4-Y-T ABM3B-27.120MHz-10-B-1-U-T ABM3B-12.288MHz-10-B-1-U-T ABM3B-20.000MHz-10-B-1-U-T ABM3B-27.120MHz-B-4-Y-T ABM3B-36.000MHz-B-4-Y-T ABM3B-25.000MHz-B-4-Y-T ABM3B-32.000MHz-10-B-1-U-T ABM3B-40.000MHz-10-B-1-U-T ABM3B-24.000MHz-10-B-1-U-T ABM3B-24.576MHz-10-B-1-U-T ABM3B-18.432MHz-B-4-Y-T