# **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 (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°C ± 3°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



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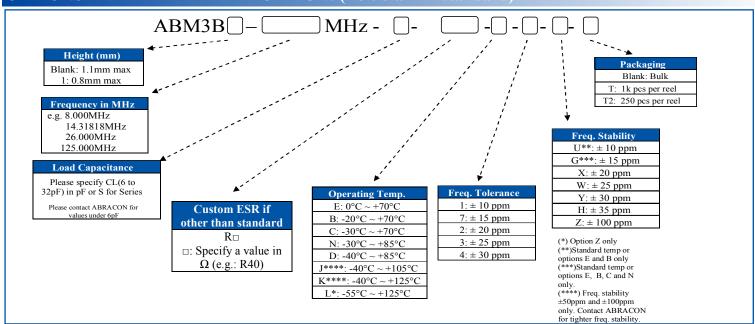




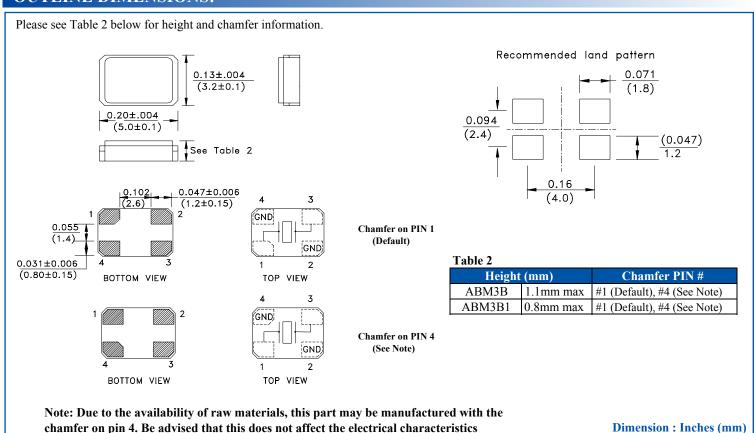
5.0 X 3.2 X 1.1mm

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



#### **OUTLINE DIMENSIONS:**





of the crystal in any way.



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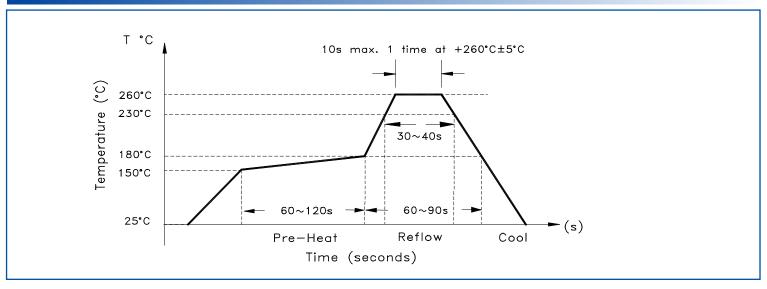




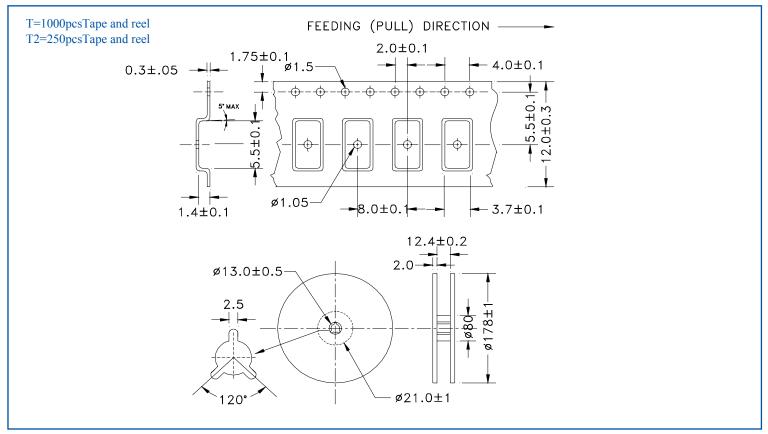
5.0 X 3.2 X 1.1mm

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### **REFLOW PROFILE:**



### **TAPE & REEL:**



**Dimension: mm** 

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