# **ULTRA MINIATURE CERAMIC SMD CRYSTAL**

### ABM8



3.2 x 2.5 x 0.8mm

#### > FEATURES:

- Low in height; suitable for thin equipment.
- Ceramic package and metal lid assures high reliability.
- Tight tolerance and stability available.
- Suitable for solder reflow.
- High precision crystal, fundamental mode.

#### > APPLICATIONS:

- High density applications.
- Modems, communication and test equipment.
- PMCIA, Wireless applications.

#### > STANDARD SPECIFICATIONS:

PARAMETERS		
Frequency Range	10.00 MHz - 60.00 MHz	
Operation Mode	Fundamental	
Operating Temperature	-10°C to + 60°C (see options)	
Storage Temperature	- 55°C to + 125°C	
Frequency Tolerance @ 25°C	± 50 ppm max. (see options)	
Frequency Stability over Temp.	± 50 ppm max. (see options)	
Equivalent Series Resistance	See Table 1	
Shunt Capacitance C₀	7pF max.	
Load Capacitance C <sub>L</sub>	18pF (see options)	
Drive Level	100μ $\Omega$ max., 10μ $\Omega$ correlation	
Aging at 25°C First Year	± 5ppm max.	
Insulation Resistance	$500$ M $\Omega$ min. @ $100$ Vdc $\pm$ $15$ V	

#### > MARKING:

- XX.X (Frequency in MHz)

- A ZYX (ZY:date code, e.g. L2;

Z: month A to L;

Y: last digit of year;

X: Traceability code)

#### TABLE 1

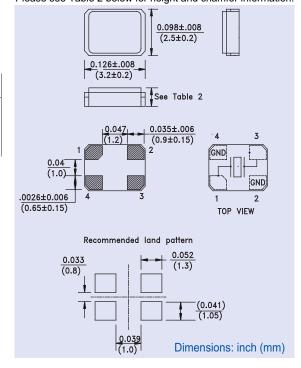
FREQ (MHz)	ESR ( $\Omega$ )max.			
10.000 - 15.999	200			
16.000 - 19.999	100			
20.000 - 29.999	80			
30.000 - 60.000	50			

#### TABLE 2

Height (mm)		Chamfer PIN #
ABM8	0.70+/-0.10	#1
ABM81	0.65+/-0.05	#1
ABM82	0.60+/-0.10	#4
ABM83	0.55+/-0.05	#1

#### > OUTLINE DRAWING:

Please see Table 2 below for height and chamfer information.



Revised: 11.27.06



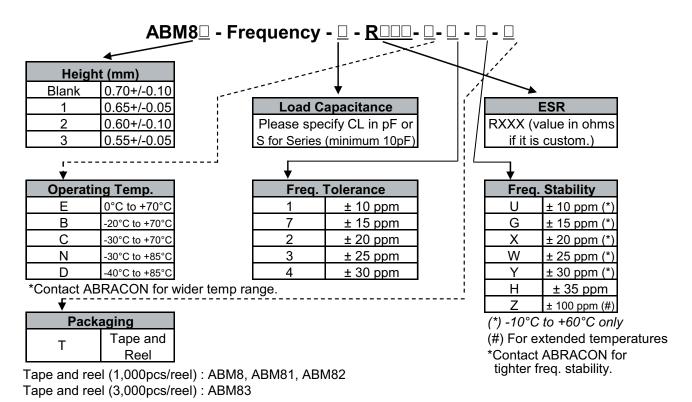
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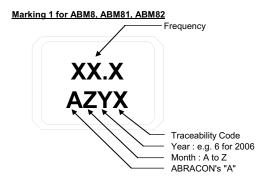


3.2 x 2.5 x 0.8mm

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

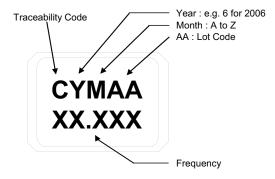


#### > MARKING:



Month	Code
January	Α
February	В
March	С
April	D
May	E
June	F
July	G
August	Н
September	I
October	J
November	K
December	Ĺ

#### Marking 2 for ABM83



Code
1
2
3
4
5
6
7
8
9
Х
Y
Z



