

# 2.5 mm X 2.0 mm B2 series Crystal

## Description

Ultra compact surface mount AT-strip crystal specially designed for consumer electronics, office automation, audio and video applications.



## Features:

- Available in frequencies from 16 MHz to 60 MHz in the fundamental mode
- +/- 10 ppm available over temp.
- Very compact and thin
- Shock resistant
- Designed for high-temp reflow
- RoHS compliant

## Frequency Range, Operating Temperature, and Frequency Stability:

Frequency Range	Operating Temperature	Product Code	Temperature Stability	Product Code	Frequency at room	Product Code
16 MHz to 60 MHz	-10 to +60°C	A	+/- 10 ppm	A	+/- 10 ppm	A
	-20 to +70°C	B	+/- 20 ppm	B	+/- 20 ppm	B
	-40 to +85°C	C	+/- 30 ppm	C	+/- 30 ppm	C
			+/- 50 ppm	D	+/- 50 ppm	D
			+/-100 ppm	E	+/-100 ppm	E

\*\* Note: Not all combinations of temperature range, temperature stability, and frequency at room temperature are available.

## Aging ( at 25C ):

Frequency	Timeframe	Aging
All	Per Year	+/- 2.0 ppm

## Crystal Electrical Parameters:

### Effective Series Resistance:

Frequency Range ( MHz )	ESR ( Max )
16MHz to 19.999MHz	120 ohms
20MHz to 29.999MHz	80 ohms
> 30MHz	50 ohms



RoHS  
COMPLIANT

### Operating Capacitive Load:

Clod ( pF )	Product Code
8.0	A
10.0	B
12.0	C

**Co and Drive Level:**

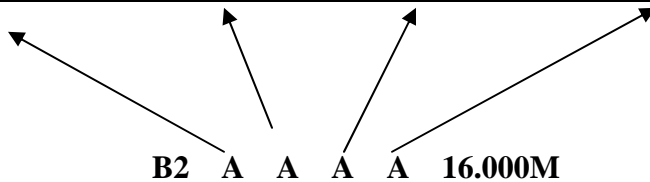
<b>Co ( pF )</b>	<b>Drive Level ( uW )</b>
3.0 max.	100 max.

**Environmental:**

Storage Temperature	-40 to +85 °C
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**Ordering Options:**

Product Code.	Operating Temp.	Temperature Stability	Frequency at Room Temp.	Clload	Operating Frequency
B2	A	A	A	A	xx.xxxMHz
B2	B	B	B	B	xx.xxxMHz
B2	C	C	C	C	xx.xxxMHz
B2		D	D		xx.xxxMHz
B2		E	E		xx.xxxMHz

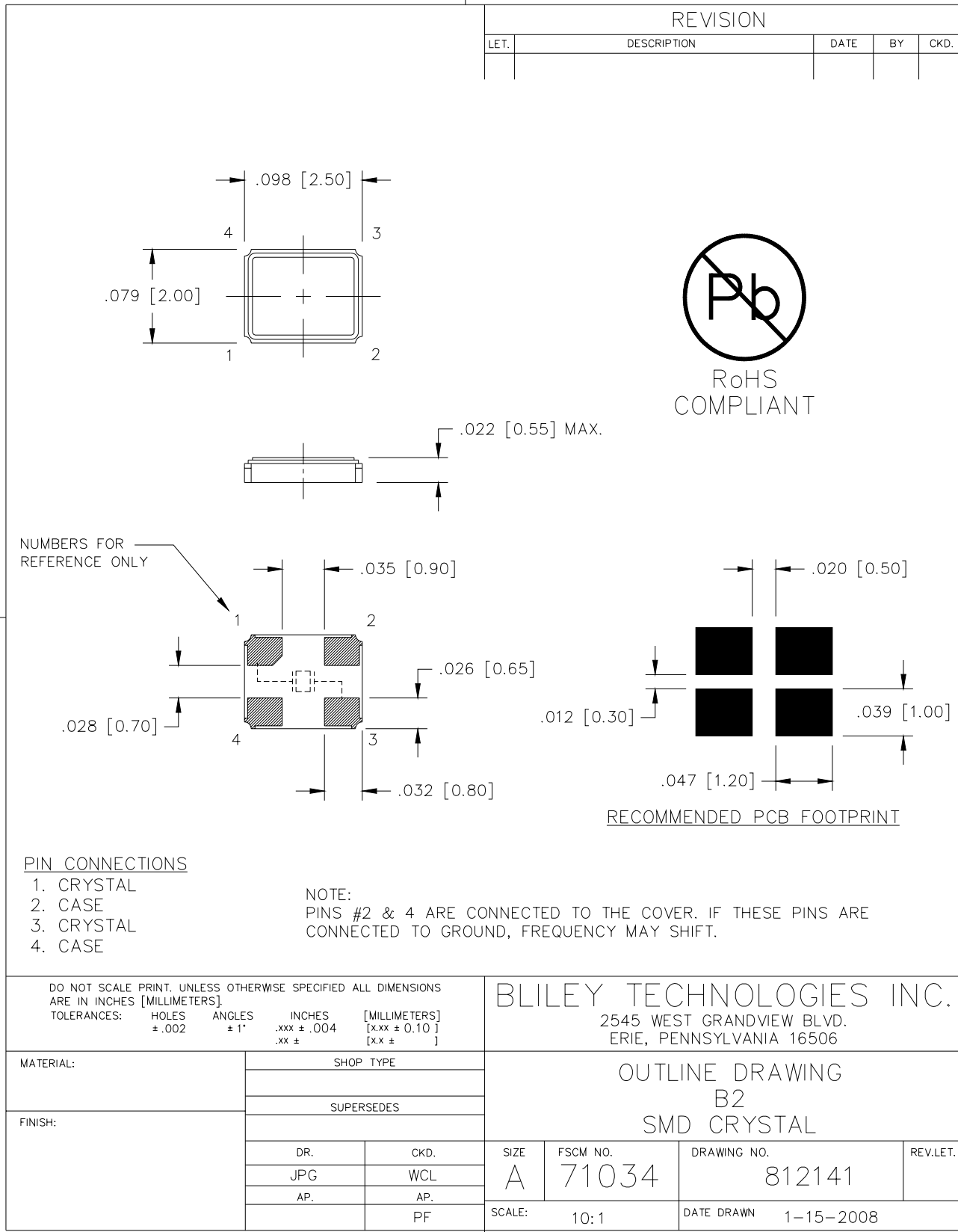


**This example part number has the following specs:**

**RoHS compliant, -10 to +60C, +/-10 ppm temperature stability and +/- 10 ppm make-tolerance at 25C with operating Clload of 8 pF at 16 MHz**

**\*\* Consult with Bliley Sales for other parameters.**

## Outline Drawing & Pin Out:



PE20D-1



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## How to Order This Product:

Contact Bliley Technologies with Product Selection Code

**Attn:**

Sales @ Bliley

Fax: **814-833-2712**

Phone: 814-838-3571

Email: [info@bliley.com](mailto:info@bliley.com)

Web: [www.bliley.com](http://www.bliley.com)

Date: \_\_\_\_\_

**From:**

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Fax: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Quantities to Quote: \_\_\_\_\_ Target Price: \$ \_\_\_\_\_

Application / Reference #: \_\_\_\_\_