

## VXA1 Microprocessor Crystals

The VXA1 series of HC-49/U packaged crystals offers the most popular crystal package for computer and peripherals' applications. Our type "A" package (HC-49/U) offers the highest level of quality at the most economical price.



Vite's standard crystal tolerance (Option "B" under stability vs. temperature) is  $\pm 50$  PPM  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  relative to the load capacitance at  $+25^{\circ}\text{C}$ . All VXA crystals will operate  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

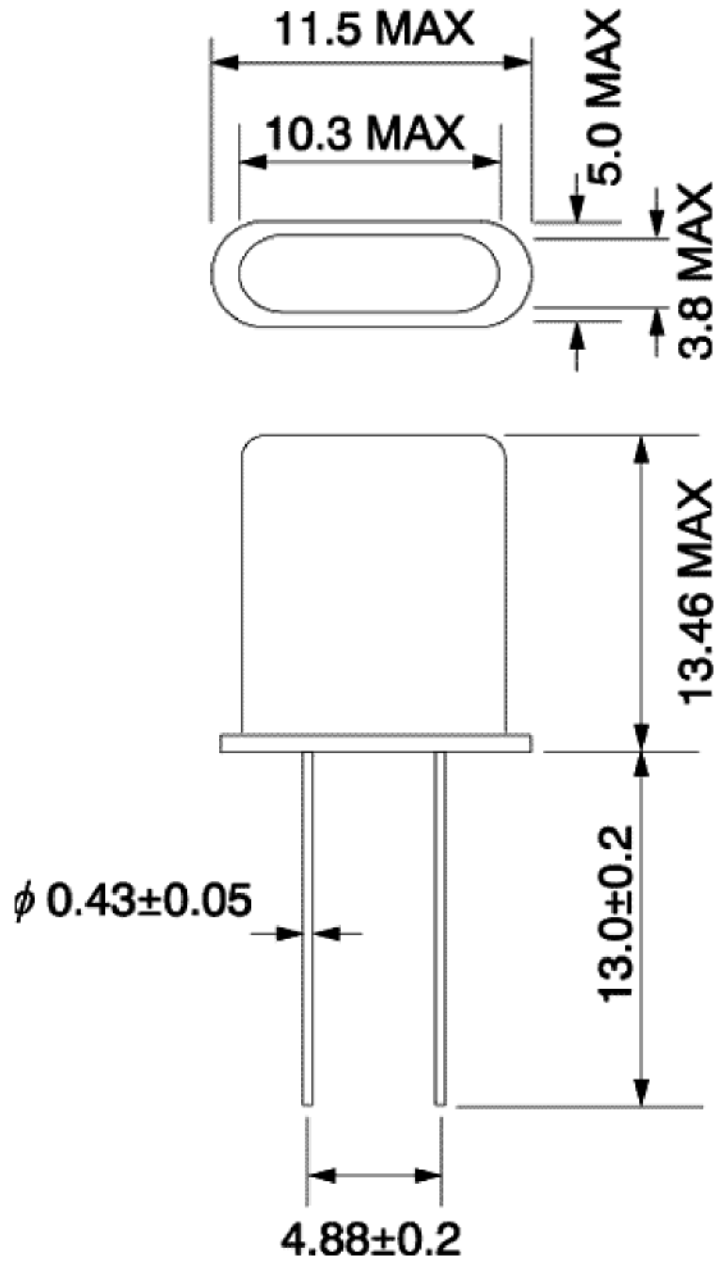
C. The "B" stability of  $\pm 50$  PPM is an absolute guarantee but the typical crystal is better than  $\pm 30$  PPM  $0^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  and better than  $\pm 75$  PPM from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

<b>Package Options</b>	<b>A1</b> = HC-49/U 13.5 mm tall
<b>Frequency Range</b>	1.8432 M Hz to 150.00 M Hz See
<b>Standard Frequencies</b>	<a href="#">Standard Frequency Table</a>
<b>Mode</b>	<b>1</b> = Fundamental (1.8432 to 40 MHz) <b>3</b> = 3 <sup>rd</sup> Overtone (20 to 100 MHz) <b>5</b> = 5 <sup>th</sup> Overtone (100 to 150 MHz)
<b>Stability Options</b>	<b>A</b> = $\pm 100$ PPM $-20^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ <b>B</b> = $\pm 50$ PPM $-20^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ <b>C</b> = $\pm 100$ PPM $-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$ <b>D</b> = $\pm 50$ PPM $-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$ <b>E</b> = $\pm 25$ PPM $-20^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ <b>F</b> = $\pm 30$ PPM $-20^{\circ}\text{C}$ to $+70^{\circ}\text{C}$
<b>Load Capacitance</b>	<b>0</b> = Series Resonant <b>1</b> = 16 pF <b>2</b> = 20 pF <b>3</b> = 32 pF <b>4</b> = 18 pF <b>5</b> = 10 pF <b>6</b> = 30 pF
<b>STD Calibration</b>	$\pm 25$ PPM at $+25^{\circ}\text{C}$ Tolerances to $\pm 10$ PPM are available
<b>Tolerance</b>	
<b>Equivalent Series Resistance</b>	See <a href="#">ESR Table I</a>
<b>Shunt Capacitance</b>	7 pf Maximum 10
<b>Drive Level Crystal</b>	to 1,000 uW <5
<b>Aging Standard</b>	ppm/1 <sup>st</sup> year
<b>Packaging Typical</b>	Bagged
<b>P/N</b>	<b>VXA1-3B2-40M000</b>

**A1** = HC/49U package 13.5 mm tall  
**3** = 3<sup>rd</sup> overtone  
**B** =  $\pm 50$  PPM  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$   
**2** = 20 pF load

[Generate your own part number!](#)

We welcome your custom requests and will issue a custom part number for items that are not listed.



Dimensions in mm.