

## Helping Customers Innovate, Improve & Grow

Table 1. Electrical Performance					
Parameter	Symbol	Min.	Тур	Max	Units
Nominal Frequency	F <sub>NOM</sub>	3.500		100.000	MHz
Mode		Fundamental, 3rd Overtone			
Operating Temperature Range	T <sub>OP</sub>	0/70, -10/70, -20/70, -40/85		°C	
Stability Over T <sub>OP</sub> 1	F <sub>STAB</sub>	±10		±100	ppm
Frequency Tolerance <sup>2</sup>	$F_{TOL}$		±10		ppm
Load Capacitance	C <sub>L</sub>	6		32	pF
Shunt Capacitance	C <sub>o</sub>			5	pF
Drive Level			10	100	uW
Aging / 1st year (at 25 °C)	$F_{AGE}$			±5	ppm
Insulation Resistance		500			MOhm
Storage Temperature	T <sub>sto</sub>	-40		90	°C
Equivalent Series Resistance					
Crystal Frequency 3.500MHz-3.579MHz 3.580MHz-4.000MHz 4.001MHz-5.000MHz 5.001MHz-6.000MHz 6.001MHz-7.000MHz 7.001MHz-10.000MHz 10.001MHz-14.000MHz 14.001MHz-20.000MHz 20.001MHz-40.000MHz, 3rd Overtone 35.000MHz-100.000MHz, 3rd Overtone	ESR			250 150 120 100 80 60 50 40 30 100 80	Ohm

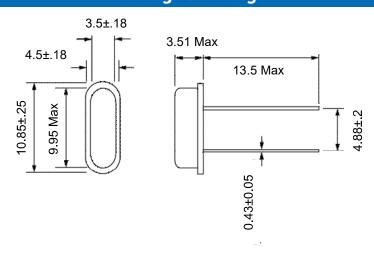
### Notes:

- 1. Referenced to the Frequency at 25 °C.
- 2. Frequency measured at 25 °C  $\pm$  3 °C.

Product is compliant to RoHS directive and fully compatible with lead free assembly.

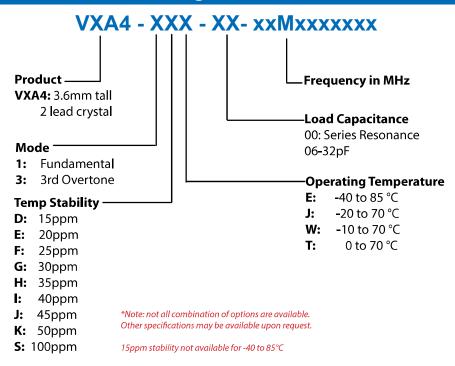


## **Package Drawing**



All Dimensions in mm

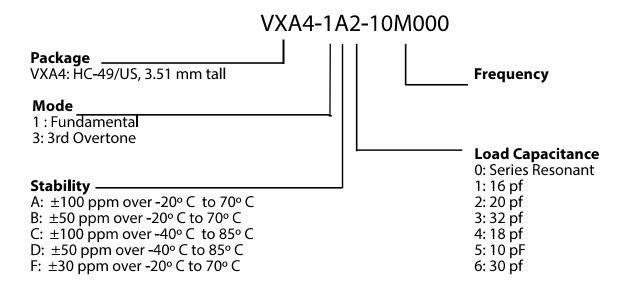
# **Ordering Information**



# **Revision History**

Revision Date	Approved	Description
August 30, 2016	RC	Initial datasheet for factory approval and release to customer.
August 10, 2018	FB	Update logo and contact information
June 10, 2019	FB	Update logo and contact information

## Previous Ordering Information for Reference Only Do Not Use to Build a New Part Number



The ordering codes for the VXA4 were changed in 2016. If you had ordered a specific code based off this ordering method, it is still available for purchase under the old code however no new part numbers will be created using this system.

Due to the change in the 8th character from numeric to alphabetic, there is no opportunity for overlap between the two ordering methods.

### **Contact Information**

### USA:

100 Watts Street Mt Holly Springs, PA 17065 Tel: 1.717.486.3411

Fax: 1.717.486.5920

# Europe:

Landstrasse 74924 Neckarbischofsheim Germany Tel: +49 (0) 7268.801.0

Fax: +49 (0) 7268.801.281



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