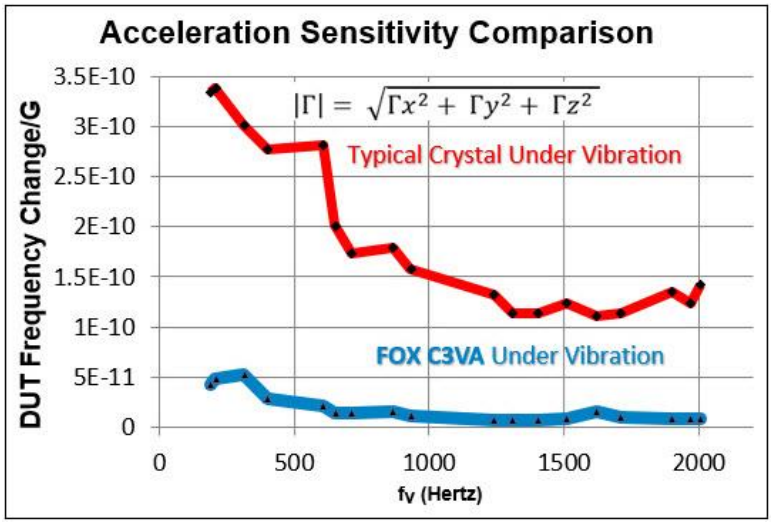
3.2mm x 2.5mm Vibration Resistant Crystal-Automotive

C3VA

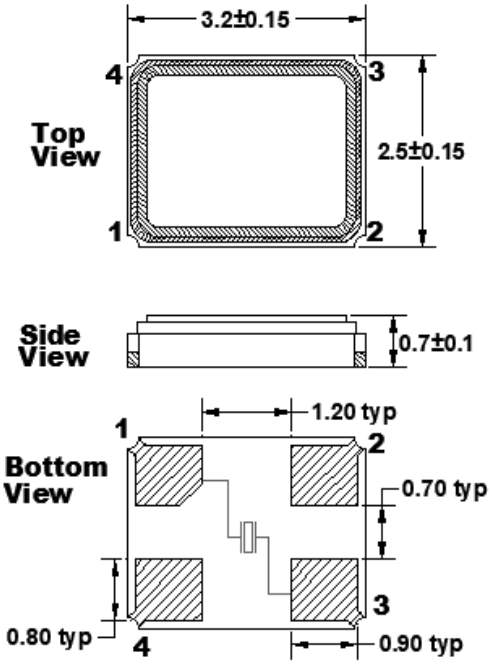
DATASHEET

- AEC-Q200 Qualified
- Low G sensitivity
- Tolerances down to ±10 ppm
- Custom application inquiries invited
- Patented technology





C3VA



C3VA STANDARD SPECIFICATIONS

PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	33 ~ 52 MHz
Resonance Mode	Fundamental
Frequency Tolerance @ 25ºC	(See options on page 2)
Frequency Stability, ref 25ºC	(See options below)
Temperature Range Operating (T_{OPR}) Storage (T_{STG})	 (See options below) -55ºC ~ +125ºC
Equivalent Series Resistance (ESR)	60Ω Max
Shunt Capacitance (C_O)	3.0 pF
Load Capacitance (C_L)	(See options on page 2)
Drive Level	0.1 mW
Aging per year	±5 PPM
Vibration Sensitivity	**0.2 ppb/G**
Maximum Soldering Temp / Time	260ºC / 10 Seconds x2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS/REACH Compliant	Yes

AVAILABLE OPERATING TEMPERATURES AND STABILITIES					
Operating Temp.	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
-20 ~+70ºC	O	O	O	O	NA
-40 ~+85ºC	O	O	O	O	NA
-40 ~+105ºC	X	X	X	O	O
-40 ~+125ºC	X	X	X	X	O

Key: O = Available; X = Not available; NA = Not Applicable

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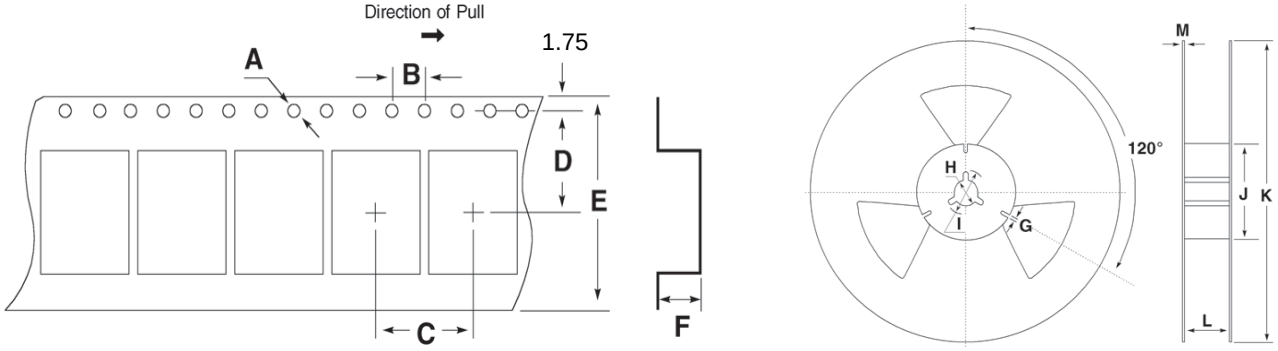
Title / Description: C3VA SERIES STANDARD SPECIFICATIONS			
Drawing Number: C3VA-DOC-1			**Size:** A
Status: Released			**Cage:** 61429
Draftsperson: BEC	**Approved:** MAJ		**Revision Date:** 06/10/2020

3.2mm x 2.5mm Vibration Resistant Crystal-Automotive

C3VA

DATASHEET

• TAPE SPECIFICATIONS (mm)							• REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	Reel QTY	G	H	I	J	K	L	M
Ø1.5	4.0	4.0	3.5	8.0	1.3	**-T3 = 3,000 default** -T2 = 2,000 -T1 = 1,000	2.0	Ø13	Ø21	Ø80	Ø180	9.0	2.0



Available Options & Part Identification for Crystal Model C3VA[1]

F C3VA E E G M 40.0

F	C3VA	E	E	G	M	40.0
FOX	**Model Number**	**Tolerance** B = ±50 PPM C = ±30 PPM D = ±25 PPM **E = ±20 PPM** F = ±15 PPM H = ±10 PPM	**Stability** A = ±100 PPM B = ±50 PPM C = ±30 PPM D = ±25 PPM **E = ±20 PPM**	**Load Capacitance[2]** V = 7 pF D = 8 pF W = 9 pF E = 10 pF **G = 12 pF** J = 15 pF K = 16 pF	**Operating Temperature** F = -20 to +70ºC **M = -40 to +85ºC** P = -40 to +105ºC I = -40 to +125ºC	**Frequency (MHz)**

[1]Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.
[2]Listed load capacitances represent the most commonly used. Other load capacitances are available. Contact Fox Technical Support for assistance.

Corporate Headquarters
5570 Enterprise Parkway
Fort Myers, FL 33905
https://foxonline.com/

Sales
1-888-GET-2-FOX (1-888-438-2369) or
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