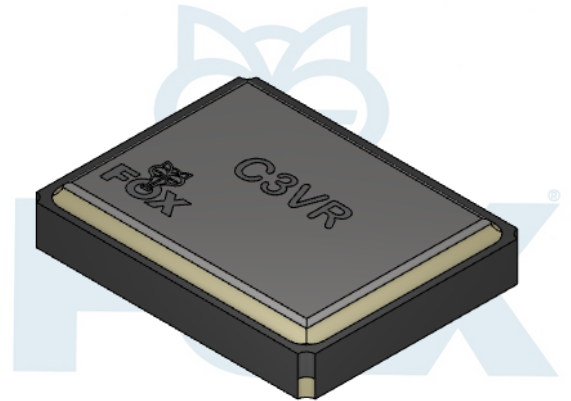
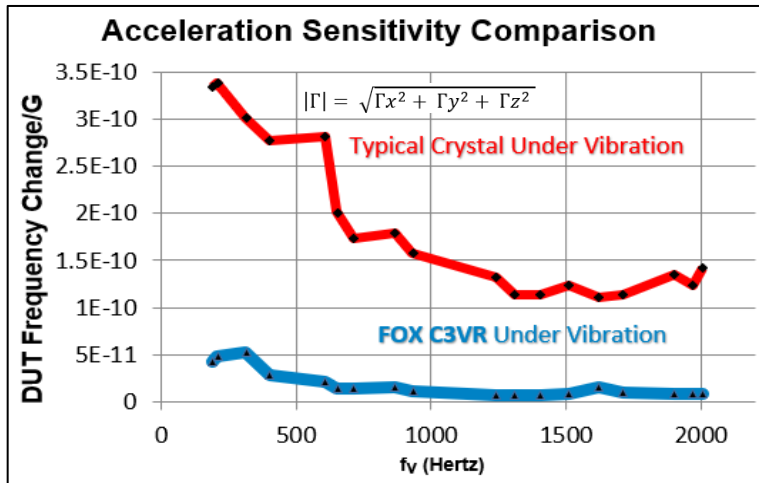




3.2mm x 2.5mm Vibration Resistant Crystal

C3VR DATASHEET

- Low G sensitivity
- Tolerances down to ± 10 ppm
- Custom application inquiries invited
- Patented Technology



3D part view for IE and Acrobat Reader
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C3VR STANDARD SPECIFICATIONS

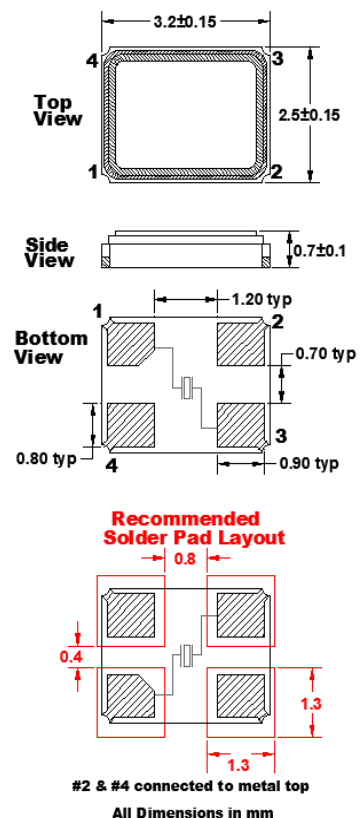
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	33 ~ 52 MHz
Resonance Mode	Fundamental
Frequency Tolerance @ 25°C	(See options on page 2)
Frequency Stability, ref 25°C	(See options below)
Temperature Range	
Operating (T_{OPR})	(See options below)
Storage (T_{STG})	-55°C ~ +125°C
Equivalent Series Resistance (ESR)	60Ω Max
Shunt Capacitance (C_0)	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	260°C / 10 Seconds x2
Moisture Sensitivity Level (MSL) per J-STD-033	N/A
Termination Finish	Au (0.3~0.75μm) over Ni (1.27~8.89μm)
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS Compliant	Yes, no exemptions
REACH Compliant (latest version)	Yes

AVAILABLE OPERATING TEMPERATURES AND STABILITIES

Operating Temperature	± 20 PPM	± 25 PPM	± 30 PPM	± 50 PPM
-20 ~ +70°C	O	O	O	O
-40 ~ +85°C	O	O	O	O

Key: O = Available

C3VR



7/23/2020 - Added thickness info to termination metals, adjusted MSL info to include J-STD-033 and N/A.

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Title / Description: C3VR SERIES STANDARD SPECIFICATIONS

Drawing Number: C3VR-DOC-DS

Status: Released

Draftsperson: BEC

Rev: D

Cage: 61429

Revision Date: 10/29/2020

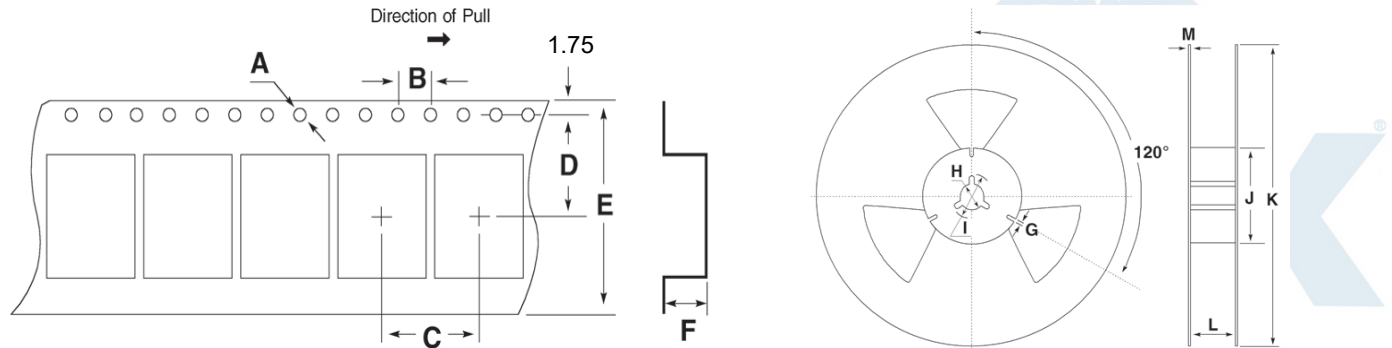
Page 1 of 2



3.2mm x 2.5mm Vibration Resistant Crystal

C3VR 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 -T1 = 1,000	2.0	Ø13	Ø21	Ø80	Ø180	9.0	2.0



Available Options & Part Identification for Crystal Model C3VR¹ **F C3VR E E G M 40.0**

F	C3VR	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 B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM	Load Capacitance² 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 +70°C M = -40 to +85°C	Frequency (MHz)

¹Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.

²Listed 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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For datasheet type definitions and a glossary of common terms, visit <http://www.foxonline.com/tgcrystals.html>.

7/23/2020 - Added thickness info to termination metals, adjusted MSL info to include J-STD-033 and N/A. © Copyright 2020 Fox Electronics. All rights reserved	Title / Description: C3VR SERIES STANDARD SPECIFICATIONS		
	Drawing Number: C3VR-DOC-DS		Rev: D
	Status: Released: 61429		Case: 61429
	Draftsperson: BEC	Approved: MAJ	Revision Date: 10/29/2020

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