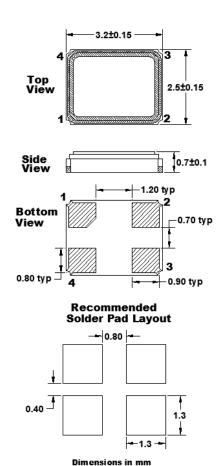


3.2 x 2.5mm Auto Grade Crystal

- AEC Q200 Qualified
- IATF-16949 QMS
- Tolerances down to ±10 PPM
- Stabilities down to ±20 PPM

• SPECIFICATIONS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range	8.000 ~ 150.000 MHz
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 ~ +150°C
Shunt Capacitance (C ₀)	3pF
Load Capacitance (CL)	(See options on page 2)
Drive Level	100μW
Aging per year	±5 PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL) per J-STD-033	N/A
Termination Finish	Au (0.3~1µm) over Ni (1.27~8.89µm)
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS Compliant	Yes, no exemptions
REACH Compliant (latest version)	Yes

Frequency Range (MHz)	Operating Mode	Max ESR Ω
8.000 ~ 9.999999	Fundamental	500
10.000 ~ 11.999999	Fundamental	150
12.000 ~ 15.999999	Fundamental	80
16.000 ~ 19.999999	Fundamental	60
20.000 ~ 24.999999	Fundamental	50
25.000 ~ 53.999999	Fundamental	40
54.000 ~ 64.000	Fundamental	30
54.000 ~ 99.999999	3 RD OT	150
100.000 ~ 124.999999	3 RD OT	100
125.000 ~ 150.000	3 RD OT	80



Note: Dimensional drawing is for reference to critical specifications defined by size measurements.

Pin Connections

#2 - Lid/Gnd

#4 - Lid/Gnd

#1 - Crystal

#3 - Crystal

•Available Operating Temperatures and Stabilities1

Operating Temperature	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM		
-40 ~ +85°C	0	0	0	0	0		
-40 ~ +105°C	X	X	0	0	0		
-40 ~ +125°C	X	X	X	0	0		
-55 ~ +125°C	X	X	X	0	0		
Key: O=Available, X=Not Available,							

Reference / Comments	Title / Description: C3BA SERIES STANDARD SPECIFICATIONS			
7/21/2020 – Added thickness info to termination metals, adjusted MSL info	Drawing Number: C3BA-DOC-1	Size: A		
to include J-STD-033 and N/A	Part Number:		Cage: 61429	
© Copyright 2020 Fox Electronics All rights reserved	Draftsperson: BEC	Approved: MAJ	Date: 07/21/2020	



3.2 x 2.5mm Auto Grade Crystal

C3BA (former FXA3225B) DATASHEET

TAPE SPECIFICATIONS (millimeters)						• REEL SPECIFICATIONS (millimeters)							
Α	В	С	D	Е	F	Reel QTY	G	Н	- 1	J	K	L	M
Ø1.55	4.0	4.0	3.5	8.0	1.4	-T3 = 3,000 -T2 = 2,000 -T1 = 1,000	2.5	Ø13	Ø 21	Ø60	Ø180	9.0	2.0
-T1 = 1,000 Direction of Pull A B Direction of Pull A Direction of Pull A D D D D D D D D D D D D								J K					

Available Options & Part Identification for Automotive Crystal Model C3BA¹ F C3BA B C V I 40.0

F	СЗВА	В	С	V		40.0
FOX	Model Number	Tolerance	Stability	Load Capacitance ²	Operating Temperature	Frequency (MHz)
		B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM	A = ±100 PPM B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM	V=7pF D=8pF E=10pF G=12pF J=15pF K=16pF L=18pF M=20pF	M = -40 to +85°C P = -40 to +105°C I = -40 to +125°C T = -55 to +125°C	

¹Not 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 http://www.FOXONLINE.com

Sales

1-888-GET-2-FOX (1-888-438-2369) or 1-239-693-0099

http://www.FOXONLINE.com/repdisty

Tech Support

http://www.FOXONLINE.com/email

PRODUCT USE: Fox Electronics reserves the right to modify the products and/or specifications described herein at any time and at Fox Electronics' sole discretion. All information in this document, including descriptions of product features and performance, is subject to change without notice. Performance specifications and the operating parameters of the described products are determined in the independent state and are not guaranteed to perform the same way when installed in customer products. The information contained herein is provided without representation or warranty of any kind, whether express or implied, including, but not limited to, the suitability of Fox Electronics' products for any particular purpose, an implied warranty of merchantability, or non-infringement of the intellectual property rights of others. This document is presented only as a guide and does not convey any license under intellectual property rights of Fox Electronics or any third parties.

Fox Electronics' products are not intended for use in applications involving extreme environmental conditions or in life support systems or similar devices where the failure or malfunction of a Fox Electronics product can be reasonably expected to significantly affect the health or safety of users. Anyone using a Fox Electronics product in such a manner does so at their own risk, absent an express, written agreement by Fox Electronics.

Fox Electronics and the Fox logo are registered trademarks of Fox Electronics. Product specification is subject to change without notice. Other trademarks and service marks used herein, including protected names, logos and designs, are the property of Fox Electronics or their respective third-party owners. For datasheet type definitions and a glossary of common terms, visit http://www.foxonline.com/tgcrystals.html .

Reference / Comments	Title / Description: C3BA SERIES STANDARD SPECIFICATIONS			
7/21/2020 – Added thickness info to termination metals, adjusted MSL info	Drawing Number: C3BA-DOC-1	Size: A		
to include J-STD-033 and N/A	Part Number:	Cage: 61429		
© Copyright 2020 Fox Electronics. All rights reserved	Draftsperson: BEC	Approved: MAJ	Date: 07/21/2020	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Fox:

FC3BACBDI16.0 FC3BACAGI16.0 FC3BACALI16.0 FC3BABCJM32.0-T3 FC3BAFBDI10.0-1-T3 FC3BAFBDI16.0-T3 FC3BAFBDI19.2-T3 FC3BAFBDI25.0-2-T3 FC3BABADI25.0-T3 FC3BAAAAEM16.0-T3 FC3BACCDP16.0-T3 FC3BABADI12.0-T3 FC3BABALM12.0-T3 FC3BAHBDI50.0-T3 FC3BAFBDI25.0-T3 FC3BACADP8A0-T3 FC3BAHEKP28.6363-T3 FC3BACBGM26.0-T3 FC3BACBGP26.0-T3 FC3BACCEP12.0-T3 FC3BACCLP12.0-T3 FC3BACCDM12.0-T3 FC3BACCDM25.0-T3 FC3BACCDP40.0-T3 FC3BACBDM16.0-T3 FC3BABALI24A0-T3 FC3BACCGM20.0-T3 FC3BAEEDP48.0-2-T3 FC3BACBJM16.0-T3 FC3BABBGM16.0-T3 FC3BACBGP12.0-T3 FC3BABBKM20.0-T3 FC3BACCGM8.0-T3 FC3BAEBGI32.0-T3 FC3BACALI16.0-T3 FC3BACBDI16.0-T3 FC3BACBDI16.0-T3 FC3BACBDI16.0-T3 FC3BACAGI16.0-T3