

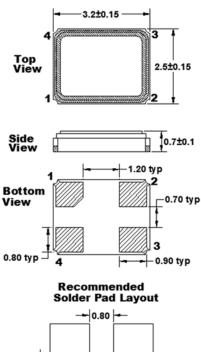
3.2 x 2.5mm Auto Grade Crystal

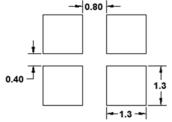
(former FXA3225B) DATASHEET

- 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 (C _L)	(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)	1
Termination Finish	Au over Ni
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS Compliant	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





Dimensions in mm

Pin Connections #1 - Crystal #2 - Lid/Gnd #4 - Lid/Gnd #3 - Crystal

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

•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,

Does not imply stocked part.



3.2 x 2.5mm Auto Grade Crystal

C3BA (former FXA3225B) DATASHEET

• TAP	• TAPE SPECIFICATIONS (millimeters) • REEL SPECIFICATIONS (millimeters)				neters)								
Α	В	С	D	Е	F	Reel QTY	G	Н	- 1	J	K	Г	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 2 1	Ø 60	Ø180	9.0	2.0
	0 0		000		+	B		F		H	G	120°	J K

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

F	C3BA	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



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Reference / Comments	Title / Description: C3BA SERIES STANDARD SPECIFICATIONS				
8	Drawing Number: C3BA-DOC-1			Size: A	
FÖX	Part Number:			Cage: 61429	
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