



# 3.2 x 2.5mm Auto Grade Crystal C3BA

(former FXA3225B)  
DATASHEET

AEC Q200 Qualified  
TS-16949 QMS  
Tolerances down to  $\pm 10$  PPM  
Stabilities down to  $\pm 20$  PPM

• SPECIFICATIONS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range	8.000 ~ 52.000 MHz
Frequency Tolerance @ 25°C	(See options on page 2)
Frequency Stability, ref @ 25°C	(See options below)
Temperature Range	
Operating (T <sub>OPR</sub> )	See options below
Storage (T <sub>STG</sub> )	-55°C ~ +150°C
Shunt Capacitance (C <sub>0</sub> )	3pF
Load Capacitance (C <sub>L</sub> )	(See options on page 2)
Drive Level	100μW
Aging per year	$\pm 5$ PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au
Seal Method	Seam Seal
Lead (Pb) Free	Yes
RoHS Compliant	No Exemptions

Frequency Range (MHz)	Operating Mode	Max ESR $\Omega$
8.000 ~ 9.999999	Fundamental	600
10.000 ~ 11.999999	Fundamental	200
12.000 ~ 29.999999	Fundamental	100
30.000 ~ 52.000000	Fundamental	50

### • Available Operating Temperatures and Stabilities<sup>1</sup>

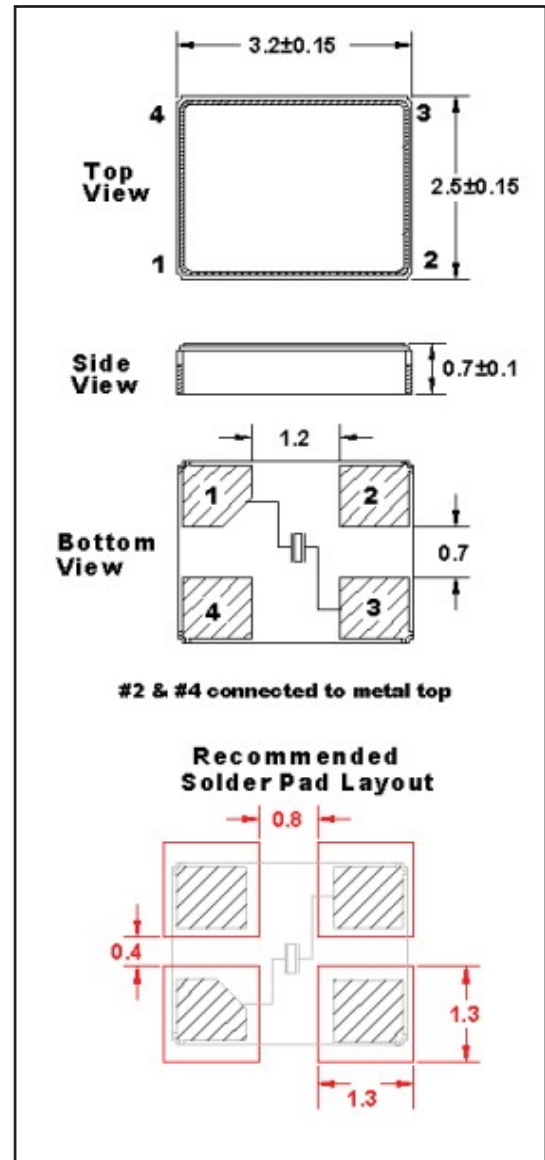
Operating Temperature	$\pm 20$ PPM <sup>2</sup>	$\pm 30$ PPM <sup>2</sup>	$\pm 50$ PPM <sup>2</sup>	$\pm 100$ PPM
-40 ~ +85°C	O	O	O	O
-40 ~ +105°C	X	O	O	O
-40 ~ +125°C <sup>3</sup>	X	X	O	O

Key: O=Available, X=Not Available, Δ=Consult Fox Technical Support

<sup>1</sup>Does not imply stocked part.

<sup>2</sup> $\pm 20$ ~ $\pm 50$  PPM available for Freq.  $\geq 10$  MHz.

<sup>3</sup>-40~+125C available for Freq.  $\geq 10$  MHz.



Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary.

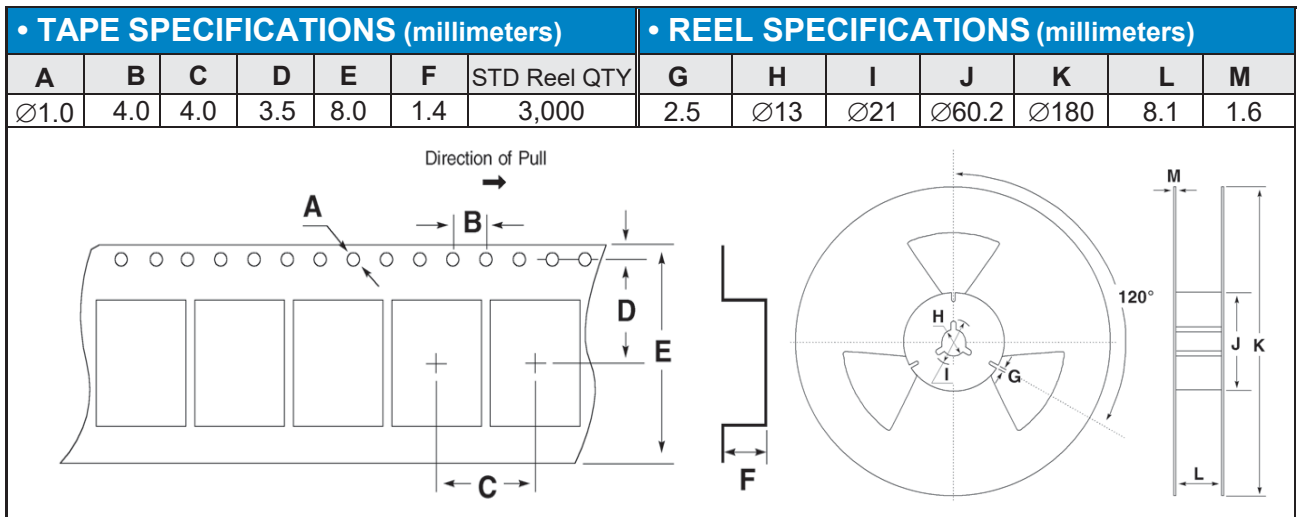
Reference / Comments	Title / Description: C3BA SERIES STANDARD SPECIFICATIONS		
<p>© Copyright 2017 Fox Electronics, All rights reserved</p>	Drawing Number: 101004		Size: A
	Part Number:		Cage: 61429
	Draftsperson: CMR		Approved: BEC
			Date: 12/21/2017



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### Available Options & Part Identification for Automotive Crystal Model C3BA\*

#### F C3BA B C V I 40.0

F	C3BA	B	C	V	I	40.0
FOX	Model Number	Tolerance B=50ppm C=30ppm E=20ppm H=10ppm	Stability A=100ppm B=50ppm C=30ppm E=20ppm	Load Capacitance A=Series V=7pF D=8pF E=10pF G=12pF J=15pF K=16pF L=18pF M=20pF N=22pF Q=30pF	Operating Temperature M=-40~+85°C P=-40~+105°C I=-40~+125°C	Frequency (MHz)

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



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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



Drawing Number: 101004

Size: A

Part Number:

Cage: 61429

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