



3.2 x 2.5mm Auto Grade Crystal C3BA

(former FXA3225B)

DATASHEET

AEC Q200 Qualified
 TS-16949 QMS
 Tolerances down to ± 10 PPM
 Stabilities down to ± 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_{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	100 μ W
Aging per year	± 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 Ω
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 Stabilities¹

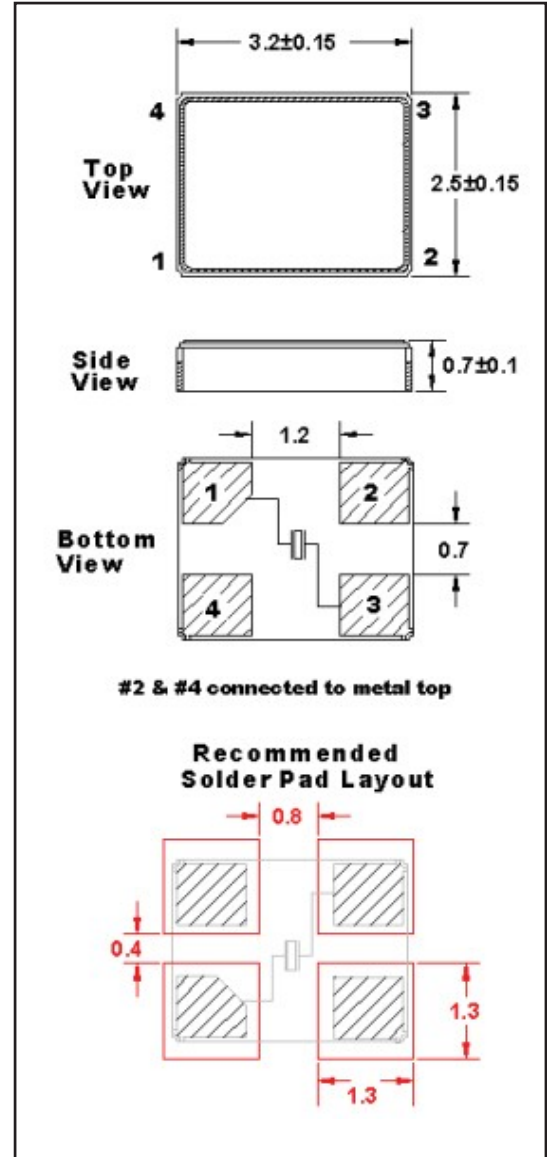
Operating Temperature	± 20 PPM ²	± 30 PPM ²	± 50 PPM ²	± 100 PPM
-40 ~ +85°C	O	O	O	O
-40 ~ +105°C	X	O	O	O
-40 ~ +125°C ³	X	X	O	O

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

¹Does not imply atocked part.

² $\pm 20 \sim \pm 50$ PPM available for Freq. ≥ 10 MHz.

³-40 ~ +125C available for Freq. ≥ 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.

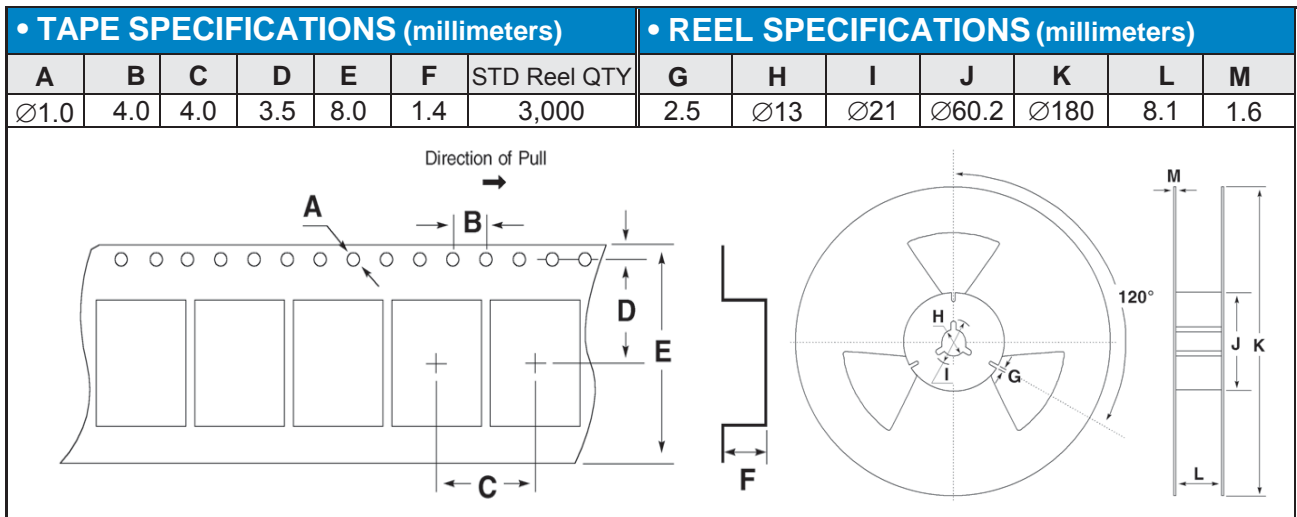
Reference / Comments	Title / Description: C3BA SERIES STANDARD SPECIFICATIONS	
 © Copyright 2017 Fox Electronics, All rights reserved	Drawing Number: 101004	
	Part Number:	
	Draftsperson: CMR	Approved: BEC
	Size: A	
		Cage: 61429
		Date: 12/21/2017



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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 <u>B=50ppm</u> <u>C=30ppm</u> <u>E=20ppm</u> <u>H=10ppm</u>	Stability <u>A=100ppm</u> <u>B=50ppm</u> <u>C=30ppm</u> <u>E=20ppm</u>	Load Capacitance <u>A=Series</u> <u>V=7pF</u> <u>D=8pF</u> <u>E=10pF</u> <u>G=12pF</u> <u>J=15pF</u> <u>K=16pF</u> <u>L=18pF</u> <u>M=20pF</u> <u>N=22pF</u> <u>Q=30pF</u>	Operating Temperature <u>M=-40~+85°C</u> <u>P=-40~+105°C</u> <u>I=-40~+125°C</u>	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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