



5.0 x 3.2mm Auto Grade Crystal C5BA

(former FXA5032B)

DATASHEET

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AEC Q200 Qualified
 TS-16949 QMS
 Tolerances down to ± 10 PPM
 Stabilities down to ± 20 PPM
 Temperature Ranges as wide as -40°C to $+125^{\circ}\text{C}$

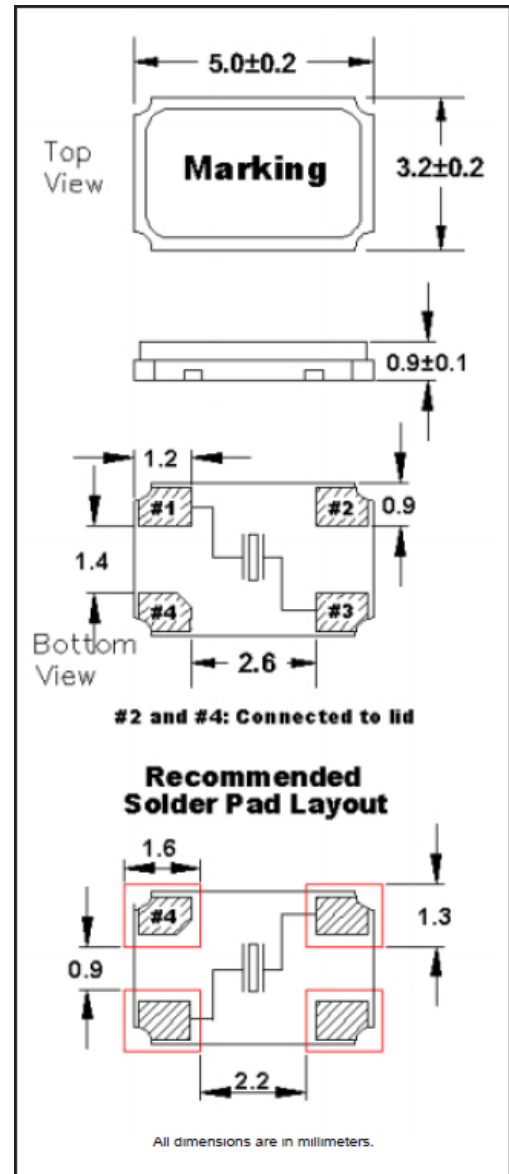
• SPECIFICATIONS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range	8.0 ~ 52.0 MHz
Frequency Tolerance @ 25°C	(See options on page 2)
Frequency Stability, ref @ 25°C	(See options below)
Temperature Range	
Operating (T_{OPR})	See options below
Storage (T_{STG})	$-55^{\circ}\text{C} \sim +150^{\circ}\text{C}$
Shunt Capacitance (C_0)	5 pF
Load Capacitance (C_L)	(See options on page 2)
Drive Level	100 μW
Aging per year	± 5 PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Seal Method	Seam Seal
Lead (Pb) Free	Yes
RoHS / REACH Compliant	Yes

Frequency Range (MHz)	Operating Mode	Max ESR Ω
8.0 ~ 10.0	Fundamental	150
>10.0 ~ 12.0	Fundamental	90
>12.0 ~ 15.0	Fundamental	70
>15.0 ~ 52.0	Fundamental	50

• Available Operating Temperatures and Stabilities¹

Operating Temperature	± 20 PPM	± 30 PPM	± 50 PPM	± 100 PPM
$-40 \sim +85^{\circ}\text{C}$	O	O	O	O
$-40 \sim +105^{\circ}\text{C}$	X	O	O	O
$-40 \sim +125^{\circ}\text{C}^{\Delta}$	X	X	O	O

Key: O=Available, X=Not Available, Δ =Consult Fox Technical Support
¹Does not imply attocked part.



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.

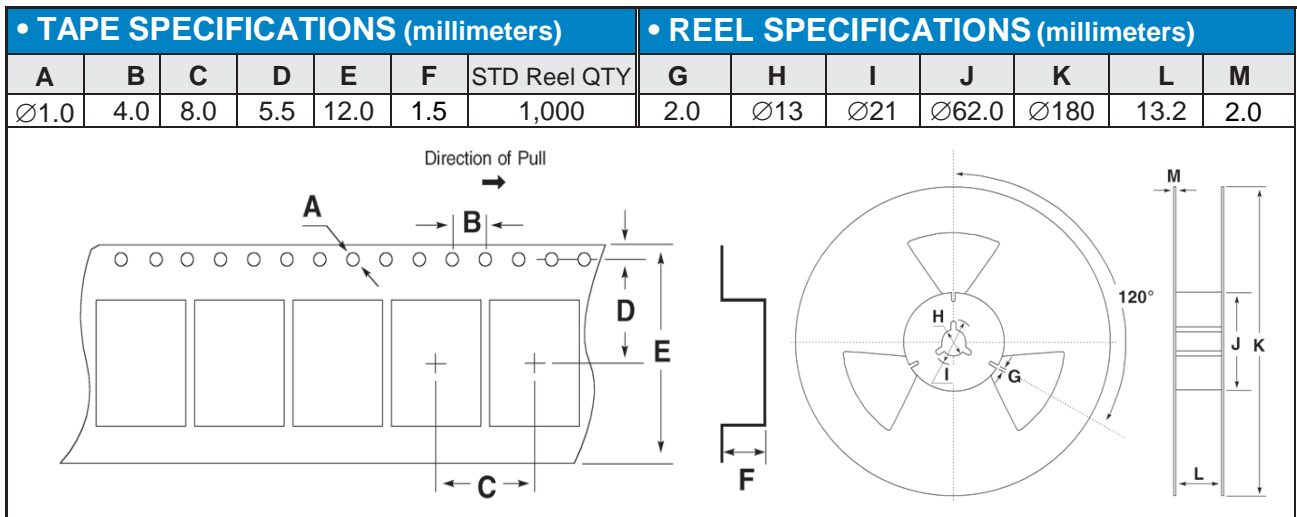
Reference / Comments	Title / Description: C5BA SERIES STANDARD SPECIFICATIONS		
 © Copyright 2017 Fox Electronics. All rights reserved	Drawing Number:		Size: A
	Part Number:		Cage: 61429
	Draftsperson: CMR		Approved: BEC
			Date: 01/03/2018



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Available Options & Part Identification for Automotive Crystal Model C5BA*

F C5BA C B M I 40.0

F	C5BA	C	B	M	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>	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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Reference / Comments

Title / Description: C5BA SERIES STANDARD SPECIFICATIONS



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