

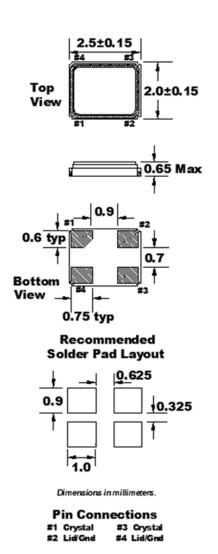
## 2.5 x 2.0mm Auto Grade Crystal

(former FXA2520B) 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	12.000 ~ 54.000 MHz
Frequency Tolerance @ 25°C	(See options on page 2)
Frequency Stability, ref @ 25°C	(See options below)
Temperature Range	
Operating (Topr)	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	±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 $\Omega$
12.000 ~ 13.999999	Fundamental	200
14.000 ~ 15.999999	Fundamental	150
16.000 ~ 19.999999	Fundamental	90
20.000 ~ 23.999999	Fundamental	70
24.000 ~ 24.999999	Fundamental	60
25.000 ~ 44.999999	Fundamental	50
45.000 ~ 54.000	Fundamental	40



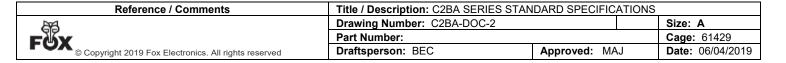
Note: Dimensional drawing is for reference to critical specifications defined by size measurements.

Available Operating Temperatures and Stabilities

Operating Temperature	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
-40 ~ +85°C	0	0	0	0	0
-40 ~ +105°C	Х	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,

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





## 2.5 x 2.0mm Auto Grade Crystal

C2BA (former FXA2520B) DATASHEET

TAPE SPECIFICATIONS (millimeters)							REEL SPECIFICATIONS (millimeters)						
Α	В	C	D	Е	F	Reel QTY	G	Н	- 1	J	K	L	M
Ø1.55	4.0	4.0	3.5	8.0	0.8	-T3 = 3,000 -T2 = 2,000 -T1 = 1,000	2.5	Ø13	Ø <b>2</b> 1	Ø60	Ø180	9.0	2.0
	0 0	000			+	B∣←	1.75 -	F		H	G	120°	J K

Available Options & Part Identification for Automotive Crystal Model C2BA <sup>1</sup>
F C2BA B C V I 40.0

F	C2BA	В	С	V		40.0
FOX	Model Number	Tolerance	Stability	Load Capacitance <sup>2</sup>	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	

<sup>&</sup>lt;sup>1</sup>Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.

<sup>&</sup>lt;sup>2</sup> 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: C2BA SERIES STANDARD SPECIFICATIONS					
254	Drawing Number: C2BA-DOC-2			Size: A		
	Part Number:			Cage: 61429		
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