

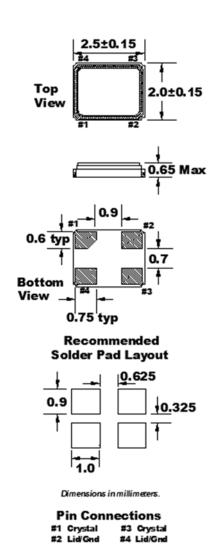
2.5 x 2.0mm Auto Grade Crystal

C2BA (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 _{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
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,

Does not imply stocked part.

Reference / Comments	Title / Description: C2BA SERIES STANDARD SPECIFICATIONS					
æ	Drawing Number: C2BA-DOC-2		Size: A			
	Part Number:			Cage: 61429		
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2.5 x 2.0mm Auto Grade Crystal

C2BA (former FXA2520B) DATASHEET

• TAPE SPECIFICATIONS (millimeters) • REEL SPEC					CIFICA	ATION	S (millir	neters)					
Α	В	С	D	Е	F	Reel QTY	G	Н	I	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 2 1	Ø60	Ø180	9.0	2.0

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

F	C2BA	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: C2BA SERII	ES STANDARD SPECIFICATIONS	3
æ	Drawing Number: C2BA-DOC-	2	Size: A
	Part Number:		Cage: 61429
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