



# 2.0 x 1.6mm Auto Grade Crystal C1BA

(former FXA2016B)

## DATASHEET

• SPECIFICATIONS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range	20.000 ~ 50.000 MHz
Frequency Tolerance @ 25°C	±10 PPM ~ ±50 PPM (See options on page 2)
Frequency Stability, ref @ 25°C	±20 PPM ~ ±100 PPM (See options below)
Temperature Range	
Operating (TOPR)	-40°C ~ +125°C (see options below)
Storage (TSTG)	-55°C ~ +150°C
Shunt Capacitance (Co)	3pF
Load Capacitance (CL)	7pF~Series (See options on page 2)
Drive Level	100µW
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

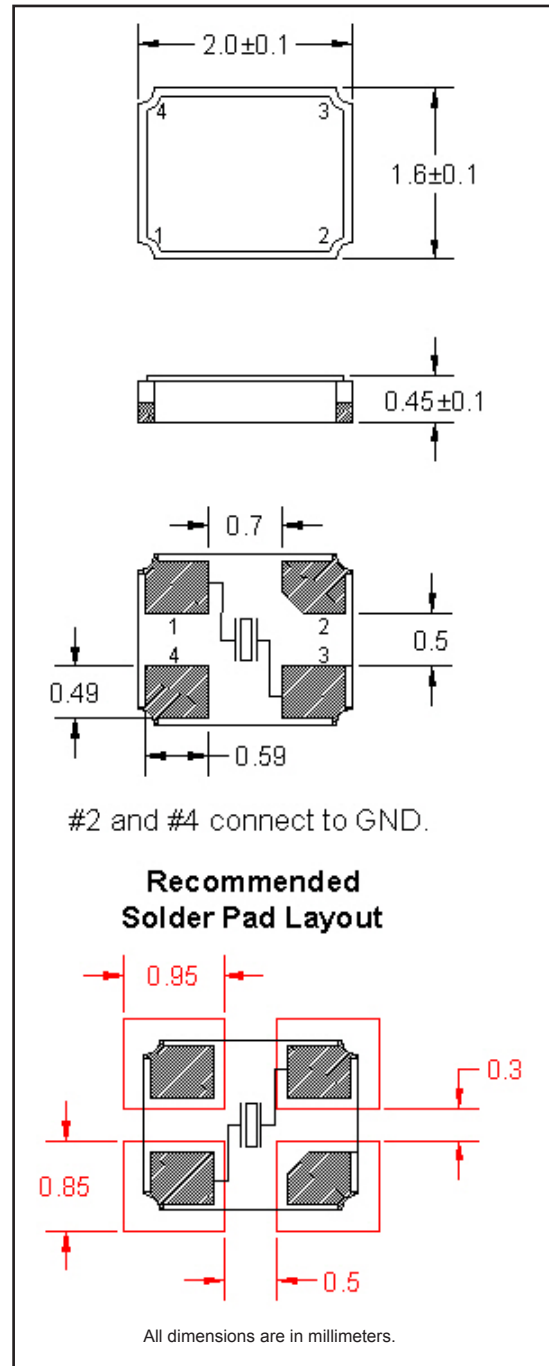
Frequency Range (MHz)	Operating Mode	Max ESR Ω
20.000 ~ 23.999999	Fundamental	120
24.000 ~ 29.999999	Fundamental	100
30.000 ~ 37.999999	Fundamental	80
38.000 ~ 50.000	Fundamental	60

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. Other tolerances, stabilities and temperature ranges available.

### •Other Stabilities Available

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

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





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• TAPE SPECIFICATIONS (millimeters)								• REEL SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY	MODEL	G	H	I	J	K	L	M
C1BA	∅1.0	4.0	4.0	3.5	8.0	0.65	3,000	C1BA	2.5	∅13	∅21	∅60.2	∅180	8.1	1.6

**Available Options & Part Identification for Automotive Crystal Model Number C1BA**

F C1BA C B E I 20.0

<b>F</b>	<b>C1BA</b>	<b>C</b>	<b>B</b>	<b>E</b>	<b>I</b>	<b>20.0</b>
FOX	Model Number	Tolerance B=50ppm <b>C=30ppm</b> E=20ppm H=10ppm	Stability A=100ppm <b>B=50ppm</b> C=30ppm E=20ppm	Load Capacitance A=Series V=7pF D=8pF <b>E=10pF</b> G=12pF J=15pF K=16pF L=18pF M=20pF	Operating Temperature M=-40~+85°C P=-40~+105°C <b>I=-40~+125°C</b>	Frequency



**Corporate Headquarters**  
5570 Enterprise Parkway  
Fort Myers, FL 33905  
<http://www.FOXONLINE.com>

**Sales**  
1-888-GET-2-FOX (1-888-438-2369) or  
1-239-693-0099  
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