



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 2.5 x 2.0mm Auto Grade Crystal C2BA

(former FXA2520B)

## DATASHEET

### • SPECIFICATIONS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range	16.000 ~ 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

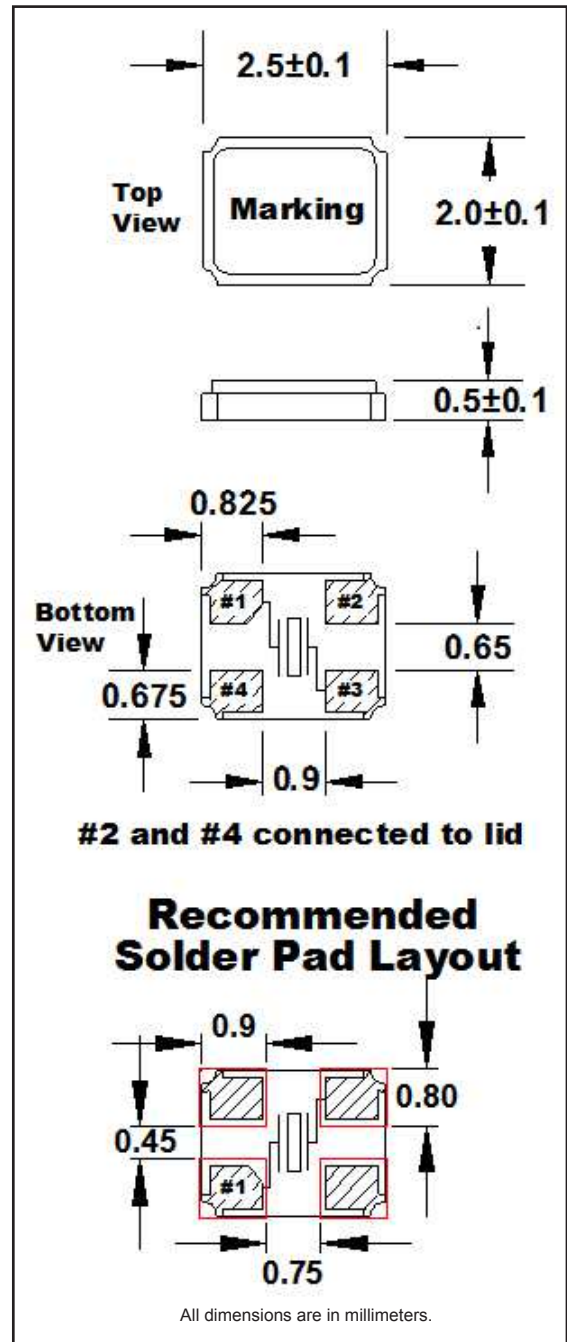
Frequency Range (MHz)	Operating Mode	Max ESR Ω
16.000000 ~ 30.000000	Fundamental	200
30.000001 ~ 50.000000	Fundamental	100

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
C2BA	∅1.0	4.0	4.0	3.5	8.0	0.8	3,000	C2BA	2.5	∅13	∅21	∅60.2	∅178	8.1	1.6

**Available Options & Part Identification for Automotive Crystal Model Number C2BA**

F C2BA C B E I 16.0

<b>F</b>	<b>C2BA</b>	<b>C</b>	<b>B</b>	<b>E</b>	<b>I</b>	<b>16.0</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



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