



7.0 x 5.0mm Auto Grade Crystal C7BA

(former FXA7050B)

DATASHEET

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• SPECIFICATIONS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range	6.000 ~ 48.000 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)	5pF
Load Capacitance (CL)	7pF~Series (See options on page 2)
Drive Level	100µW
Aging per year	±3 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

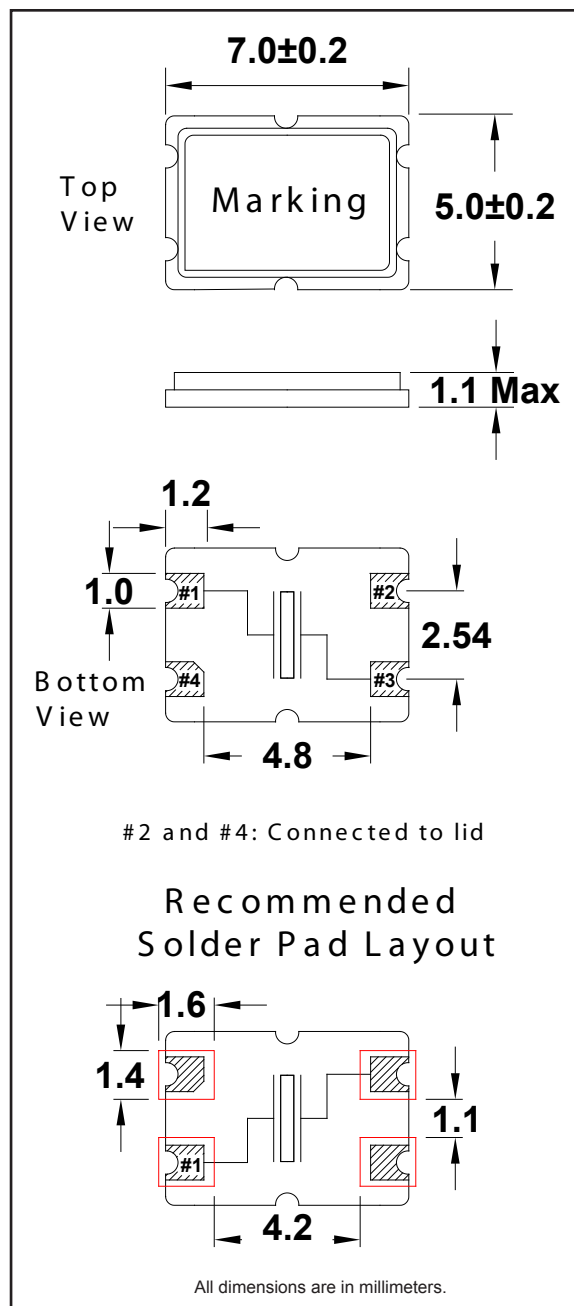
Frequency Range (MHz)	Operating Mode	Max ESR Ω
6.000000 ~ 10.000000	Fundamental	110
10.000001 ~ 12.000000	Fundamental	60
12.000001 ~ 20.000000	Fundamental	50
20.000001 ~ 48.000000	Fundamental	40

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
C7BA	Ø1.5	4.0	8.0	7.5	16.0	2.0	1,000	C7BA	2.0	Ø13	Ø21	Ø62.0	Ø180	16.2	1.6

The diagram illustrates the mechanical specifications for a crystal tape and its reel. The left side shows a side view of the tape with dimensions A through F. Dimension A is the pitch of the holes, B is the carrier width, C is the carrier pitch, D is the carrier thickness, E is the carrier height, and F is the carrier width. The right side shows a top view of the reel with dimensions G through M. Dimension G is the reel width, H is the reel diameter, I is the reel hole diameter, J is the reel hole diameter, K is the reel hole diameter, L is the reel hole diameter, and M is the reel hole diameter. The diagram also shows the direction of pull and a 120-degree angle.

Available Options & Part Identification for Automotive Crystal Model Number C7BA						
F C7BA C B M I 25.0						
F	C7BA	C	B	M	I	25.0
FOX	Model Number	Tolerance B=50ppm C=30ppm E=20ppm H=10ppm	Stability A=100ppm B=50ppm C=30ppm E=20ppm	Load Capacitance A=Series V=7pF D=8pF E=10pF G=12pF J=15pF K=16pF L=18pF M=20pF	Operating Temperature M=-40~+ 85°C P=-40~+105°C I=-40~+125°C	Frequency



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