

# FC1BA

(Former FXA2016B)

2.0mm x 1.6mm  
Auto Grade Crystal



## Features

- AEC Q200 Qualified
- IATF-16949 QMS
- Tolerances down to  $\pm 10$  PPM
- Stabilities down to  $\pm 20$  PPM

STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	16.000 ~ 54.000 MHz
Frequency Tolerance @ 25°C	(See options below)
Frequency Stability, ref 25°C	(See options below)
Temperature Range	
Operating ( $T_{OPR}$ )	See options below
Storage ( $T_{STG}$ )	-55°C ~ +150°C
Shunt Capacitance ( $C_0$ )	3 pF
Load Capacitance ( $C_L$ )	(See options below)
Drive Level	100 $\mu$ W
Aging per year (@ 25°C)	$\pm 5$ PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL) per J-STD-033	N/A
Termination Finish	Au (0.3~1.0 $\mu$ m) over Ni (1.27~8.89 $\mu$ m)
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS Compliant	Yes, no exemptions
REACH Compliant (latest version)	Yes

DIMENSIONS / MECHANICAL SPECIFICATIONS
<p>Top View</p>
<p>Bottom View</p>
<p><b>Recommended Solder Pad Layout</b></p>
<p>Dimensions are in millimeters.</p> <p><b>Pin Connections</b>            #1 Crystal #3 Crystal            #2 Lid/Gnd #4 Lid/Gnd</p>
<p>Note: Dimensional drawing is for reference to critical specifications defined by size measurements.</p>

Frequency Range (MHz)	Operating Mode	Max ESR $\Omega$
16.000 ~ 19.199999	Fundamental	200
19.200 ~ 25.999999	Fundamental	100
26.000 ~ 35.999999	Fundamental	80
36.000 ~ 54.000	Fundamental	60

AVAILABLE OPERATING TEMPERATURES AND STABILITIES					
Operating Temperature	$\pm 20$ PPM	$\pm 25$ PPM	$\pm 30$ PPM	$\pm 50$ PPM	$\pm 100$ PPM
-40°C ~ +85°C	O	O	O	O	O
-40°C ~ +105°C	X	X	O	O	O
-40°C ~ +125°C	X	X	X	O	O
-55°C ~ +125°C	X	X	X	O	O

Key: O = Available, X = Not Available

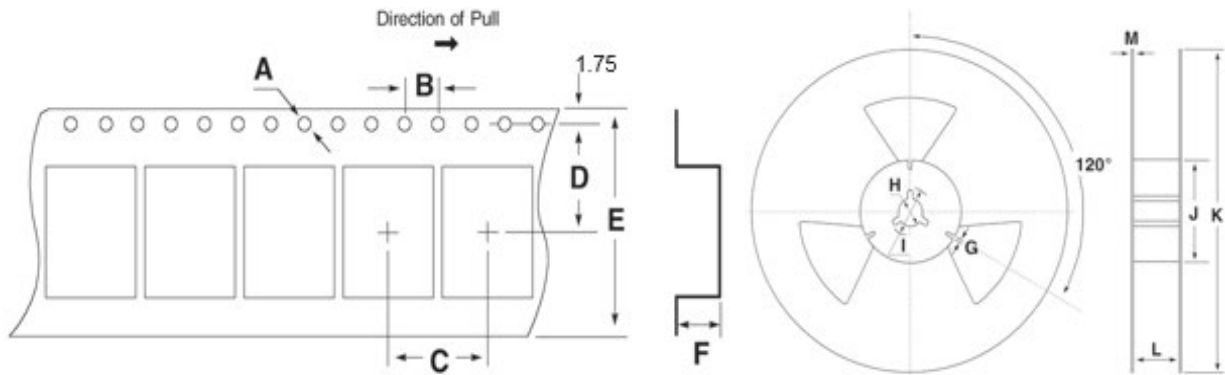
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TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
∅1.55	4.0	4.0	3.5	8.0	0.65	-T3 = 3,000 -T2 = 2,000 -T1 = 1,000	2.5	∅13	∅21	∅60	∅180	9.0	2.0



## Available Options & Part Identification for Automotive Crystal Model C1BA<sup>1</sup>

Sample PN: FC1BABCVI40.0-T1

F	C1BA	B	C	V	I	40.0	-T1
<b>Fox</b>	<b>Model Number</b>	<b>Tolerance</b>	<b>Stability</b>	<b>Load Capacitance<sup>2</sup></b>	<b>Operating Temperature</b>	<b>Frequency (MHz)</b>	<b>Values Added Options</b>
		B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM	A = ±100 PPM B = ±50 PPM <b>C = ±30 PPM</b> 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 <b>I = -40 to +125°C</b> T = -55 to +125°C		Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs T3 = 3,000 pcs

1 Not 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 us for assistance

### Reliability Test Conditions

Please contact Abracon Quality Assurance department

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