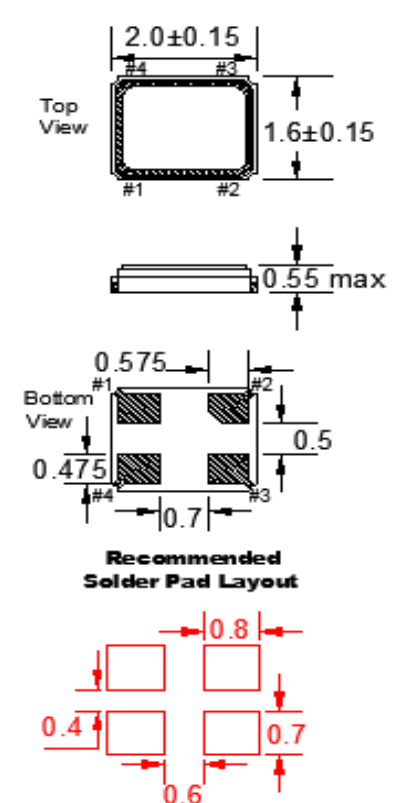


Features

- AEC Q200 Qualified
- IATF-16949 QMS
- Tolerances down to ± 10 PPM
- Stabilities down to ± 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 μ W
Aging per year (@ 25°C)	± 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 μ m) over Ni (1.27~8.89 μ m)
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS Compliant	Yes, no exemptions
REACH Compliant (latest version)	Yes

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

DIMENSIONS / MECHANICAL SPECIFICATIONS	
 Recommended Solder Pad Layout Dimensions are in millimeters. Pin Connections #1 Crystal #3 Crystal #2 Lid/Gnd #4 Lid/Gnd	
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°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					

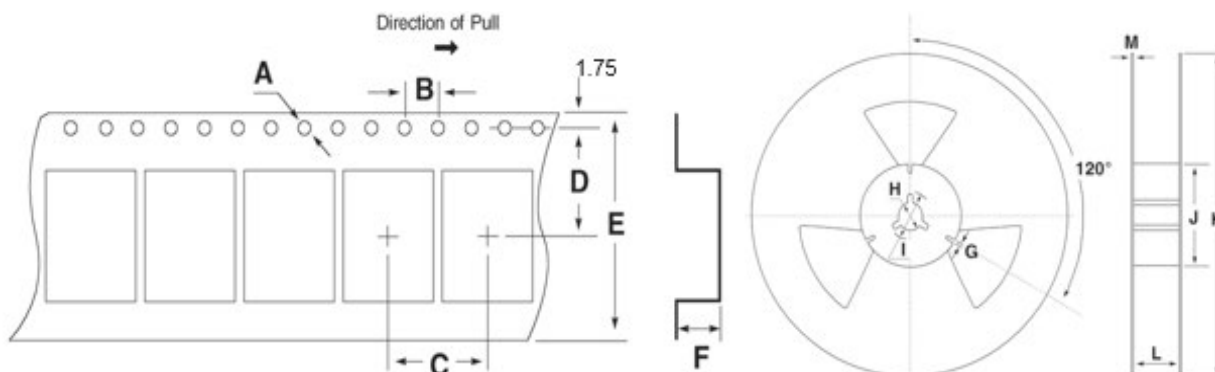
FC1BA

(Former FXA2016B)

2.0mm x 1.6mm
Auto Grade Crystal



TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.55	4.0	4.0	3.5	8.0	0.65	-T3 = 3,000 -T2 = 2,000 -T1 = 1,000	2.5	ø13	ø21	ø60	ø180	9.0	2.0



Available Options & Part Identification for Automotive Crystal Model C1BA¹

Sample PN: **FC1BABCVI40.0-T1**

F	C1BA	B	C	V	I	40.0	-T1
Fox	Model Number	Tolerance B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM	Stability A = ±100 PPM B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM	Load Capacitance ² V=7pF D=8pF E=10pF G=12pF J=15pF K=16pF L=18pF M=20pF	Operating Temperature M = -40 to +85°C P = -40 to +105°C I = -40 to +125°C T = -55 to +125°C	Frequency (MHz)	Values Added Options 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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

[FC1BACBEI20.0](#) [FC1BAEBGI32.0-T3](#) [FC1BAFBDI25.0-T3](#) [FC1BACBGM32.0-T3](#) [FC1BACBLM25.0-T3](#)
[FC1BABBDI20.0-T3](#) [FC1BAFBDI24.0-T3](#) [FC1BAFBDI40.0-T3](#) [FC1BACBGM24.0-T3](#) [FC1BAHEDM32.0-T3](#)
[FC1BACBEI20.0-T3](#) [FC1BACBDI20.0-1-T3](#) [FC1BACBEI25.0-T3](#) [FC1BAFBDM50.0-T1](#) [FC1BAHBDI40.0-T1](#)