

# FC3BA

(Former FXA3225B)

3.2mm x 2.5mm  
Auto Grade Crystal

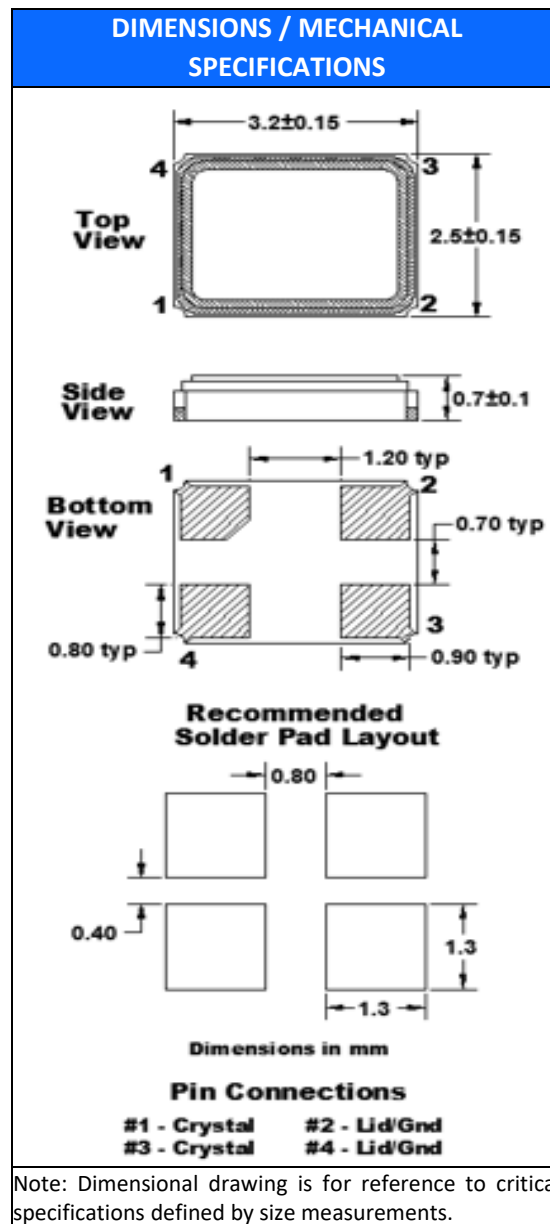


## Features

- 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	8.000 ~ 150.000 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 $\mu$ 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

Frequency Range (MHz)	Operating Mode	Max ESR $\Omega$
8.000 ~ 9.999999	Fundamental	500
10.000 ~ 11.999999	Fundamental	150
12.000 ~ 15.999999	Fundamental	80
16.000 ~ 19.999999	Fundamental	60
20.000 ~ 24.999999	Fundamental	50
25.000 ~ 53.999999	Fundamental	40
54.000 ~ 64.000	Fundamental	30
54.000 ~ 99.999999	3 <sup>RD</sup> OT	150
100.000 ~ 124.999999	3 <sup>RD</sup> OT	100
125.000 ~ 150.000	3 <sup>RD</sup> OT	80



AVAILABLE OPERATING TEMPERATURES AND STABILITIES <sup>1</sup>					
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,

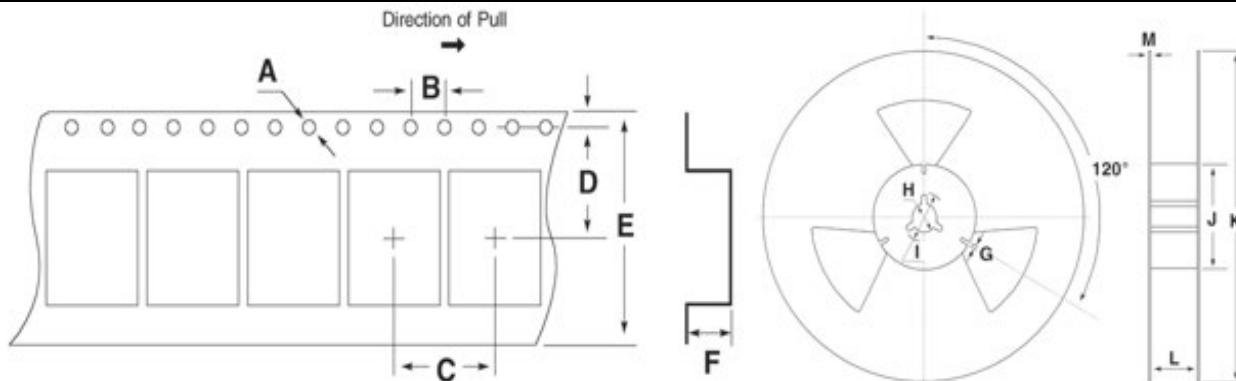
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TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.55	4.0	4.0	3.5	8.0	1.4	-T3 = 3,000 -T2 = 2,000 -T1 = 1,000	2.5	ø13	ø21	ø60	ø180	9.0	2.0



## Available Options & Part Identification for Automotive Crystal Model C3BA<sup>1</sup>

Sample PN: FC3BABCVI40.0

F	C3BA	B	C	V	I	40.0	-T1
<u>Fox</u>	<u>Model Number</u>	<u>Tolerance</u> B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM	<u>Stability</u> A = ±100 PPM B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM	<u>Load Capacitance<sup>2</sup></u> V = 7pF D = 8pF E = 10pF G = 12pF J = 15pF K = 16pF L = 18pF M = 20pF	<u>Operating Temperature</u> M = -40 to +85°C P = -40 to +105°C I = -40 to +125°C T = -55 to +125°C	<u>Frequency (MHz)</u>	<u>Values Added Options</u> 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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