

2.0x1.6mm Ceramic SMD Crystal C1BS

(former FX216B)

DATASHEET

- Tolerances down to 10 PPM
- Stabilities down to 10 PPM
- Temperature Ranges as wide as -40°C to +85°C

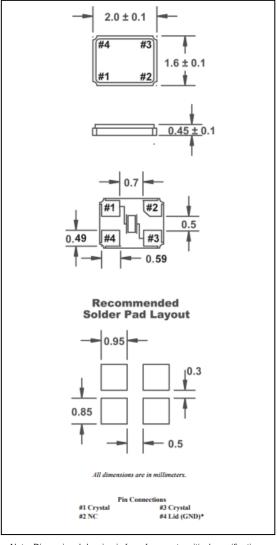
• SPECIFICATIONS				
PARAMETERS	MAX (unless otherwise noted)			
Frequency Range	16.000 ~ 64.000 MHz			
Frequency Tolerance @ 25°C	(See options on page 2)			
Frequency Stability, ref @ 25°C	(See options below)			
Temperature Range				
Operating (TOPR)	(See options below)			
Storage (Tstg)	-55°C ~ +125°C			
Shunt Capacitance (Co)	3 pF			
Load Capacitance (C _I)	(See options on page 2)			
Drive Level	0.1 mW			
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/REACH Compliant	Yes			

Frequency Range (MHz)	Operating Mode	Max ESR Ω
16.000 ~ 19.999999	Fundamental	200
20.000 ~ 23.999999	Fundamental	120
24.000 ~ 29.999999	Fundamental	100
30.000 ~ 39.999999	Fundamental	80
40.000 ~ 64.000	Fundamental	60

•Available O	perating Ten	nperatures ai	nd Stabilities*

Operating Temperature	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM
-10 ~+60°C	0	0	0	0	0	0
-20 ~+70°C	0	0	0	0	0	0
-40 ~+85°C**	Х	0	0	0	0	0

Key: O=Available, X=Not Available, Δ =Consult Fox Technical Support *Does not imply a stocked part.



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.



Title / Description: C1BS SER	Title / Description: C1BS SERIES STANDARD SPECIFICATIONS			
Drawing Number: 101173	Drawing Number: 101173			
Part Number:	Part Number:			
Draftsperson: MK	Approved: RB	Revision Date: 11/09/2017		

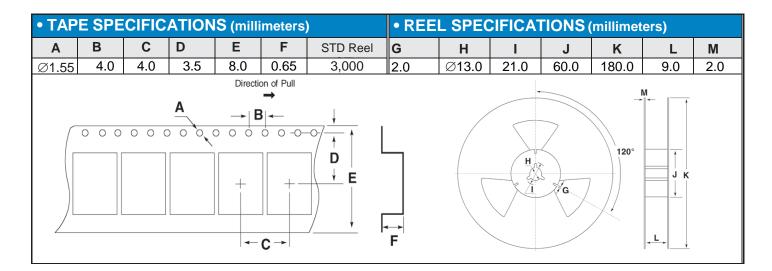
Boco not imply a stocked part.



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Available Options & Part Identification for Crystal Model C1BS* F C1BS E E M 32.0

F	C1BS	Е	Е	Е	M	32.0
FOX	Model <u>Number</u>	Tolerance B = 50 PPM C = 30 PPM D = 25 PPM E = 20 PPM F = 15 PPM H = 10 PPM	Stability B = 50 PPM C = 30 PPM D = 25 PPM E = 20 PPM F = 15 PPM H = 10 PPM	Load Capacitance D = 8 pF E = 10 pF G = 12 pF J = 15 pF L = 18 pF M = 20 pF V = 7 pF W = 9 pF	Operating Temperature D = -10 ~ +60 °C F = -20 ~ +70 °C M = -40 ~ +85 °C	Frequency (MHz)

^{*}Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.



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Title / Description: C1BS SERIES STANDARD SPECIFICATIONS			
Drawing Number: 101173	Size: A		
Part Number:	Cage: 61429		
Draftsperson: MK	Approved: RB	Revision Date: 11/09/2017	

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