

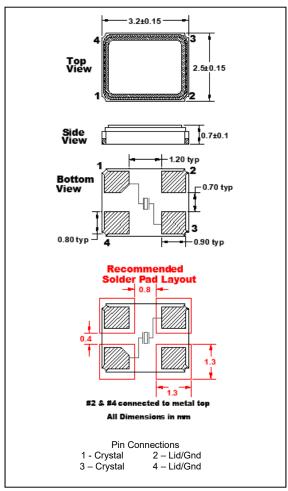
3.2mm x 2.5mm Ceramic SMD Crystal C3BS

(former FX325BS)

DATASHEET

C3BS STANDARD SPECIFICATIONS						
PARAMETERS	MAX(unless otherwise noted)					
Frequency Range	8.000 ~ 200.000 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)	3.0 pF					
Load Capacitance (CL)	(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 over Ni					
Seal Method	Seam					
Lead (Pb) Free	Yes					
RoHS Compliant	Yes					

Frequency Range (MHz)	Operating Mode	Max ESR Ω
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 ~ 200.000	Fundamental	30
60.000 ~ 99.999999	3rd OT	150
100.000 ~ 124.999999	3rd OT	100
125.000 ~ 150.000	3rd OT	80



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.

Available Operating Temperatures and Stabilities*

	<u>J</u>							
Operating Temperature	±5 PPM	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
0 ~ +70°C	Х	0	0	0	0	0	0	N/A
-10 ~ +60°C	0	0	0	0	0	0	0	N/A
-10 ~ +70°C	Х	0	0	0	0	0	0	N/A
-20 ~ +70°C	Х	0	0	0	0	0	0	N/A
-30 ~ +85°C	Х	Х	0	0	0	0	0	N/A
-40 ~ +85°C	Χ	Х	0	0	0	0	0	N/A
-40 ~ +105°C	Χ	Х	X	X	X	X	0	0
-40 ~ +125°C	X	X	X	X	X	X	0	0
-55 ~ +125°C	X	X	Y	Y	Y	Y		

Key: O=Available, X=Not Available, N/A=Not applicable *Does not imply a stocked part.

ASA.	Title / Description: C3BS SERIES STANDARD SPECIFICATIONS				
312	Drawing Number: 101138	Size: A			
FOX	Part Number:	Cage: 61429			
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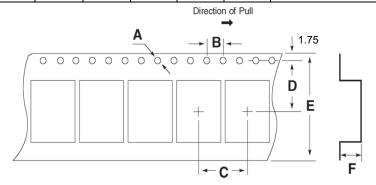


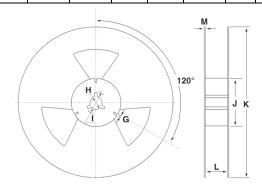
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TAPE SPECIFICATIONS (mm)						• REE	EL SP	ECIF	ICAT	IONS	(mm)	
Α	В	С	D	E	F	Reel QTY	G	Н	- 1	J	K	Г	M
Ø1.55	4.0	4.0	3.5	8.0	1.3	-T3 = 3,000 default -T2 = 2,000 -T1 = 1,000	2.0	Ø13	Ø21	Ø80	Ø180	9.0	2.0





	Available Options & Part Identification for Crystal Model C3BS ¹ <u>F C3BS B B G M 25.0</u>							
F	C3BS	В	В	G	M	25.0		
FOX	Model Number	Tolerance	Stability	Load Capacitance ²	Operating Temperature	Frequency (MHz)		
		B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM	A = ±100 PPM B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM L = ±5 PPM	V = 7 pF D = 8 pF W = 9 pF E = 10 pF G = 12 pF J = 15 pF K = 16 pF L = 18 pF M = 20 pF	C = 0 to +70°C D = -10 to +60°C E = -10 to +70°C F = -20 to +70°C K = -30 to +85°C M = -40 to +85°C P = -40 to +105°C I = -40 to +125°C T = -55 to +125°C			

¹Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.

²Listed load capacitances represent the most commonly used. Other load capacitances are available. Contact Fox Technical Support for assistance.



Corporate Headquarters

5570 Enterprise Parkway Fort Myers, FL 33905 http://www.FOXONLINE.com

Sales

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