



3.2mm x 2.5mm Ceramic SMD Crystal C3BS

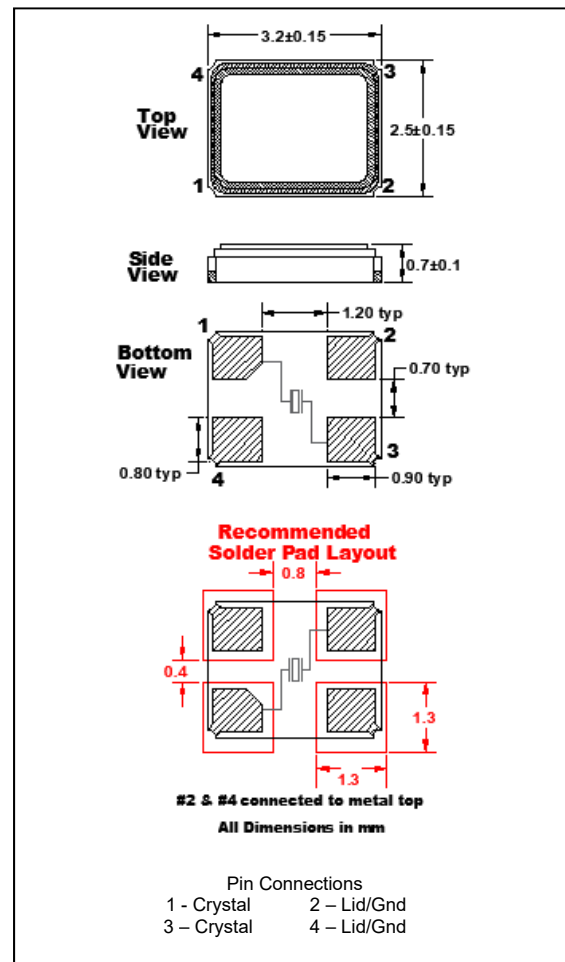
(former FX325BS)

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*

Operating Temperature	±5 PPM	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
0 ~ +70°C	X	O	O	O	O	O	O	N/A
-10 ~ +60°C	O	O	O	O	O	O	O	N/A
-10 ~ +70°C	X	O	O	O	O	O	O	N/A
-20 ~ +70°C	X	O	O	O	O	O	O	N/A
-30 ~ +85°C	X	X	O	O	O	O	O	N/A
-40 ~ +85°C	X	X	O	O	O	O	O	N/A
-40 ~ +105°C	X	X	X	X	X	X	O	O
-40 ~ +125°C	X	X	X	X	X	X	O	O
-55 ~ +125°C	X	X	X	X	X	X	O	O

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



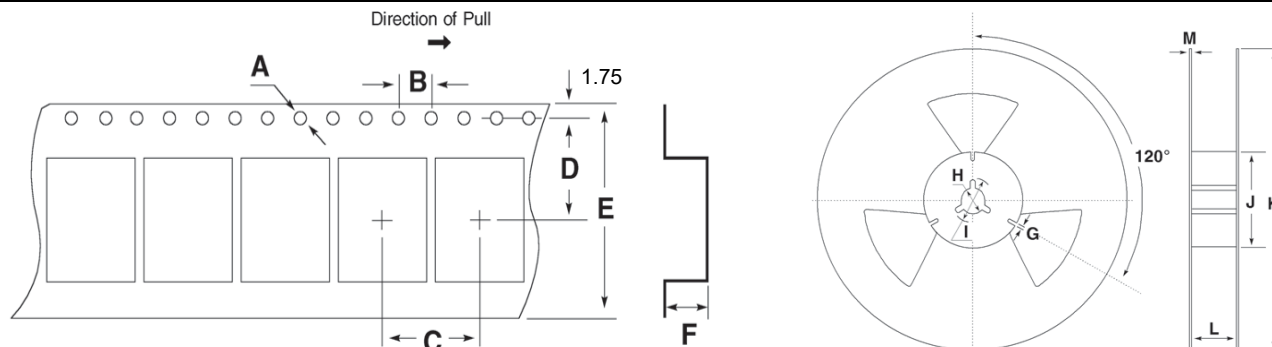


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DATASHEET

• 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	1.3	-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 C3BS¹

F C3BS B B G M 25.0

F	C3BS	B	B	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.



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Title / Description: C3BS SERIES STANDARD SPECIFICATIONS

Drawing Number: 101138

Part Number:

Draftsperson: MAJ

Approved: BEC

Size: A

Cage: 61429

Revision Date: 06/4/2019