



SMD Crystal

C2BS
(former FX252BS)
DATASHEET

- Tolerances down to 10 PPM
- Stabilities down to 10 PPM

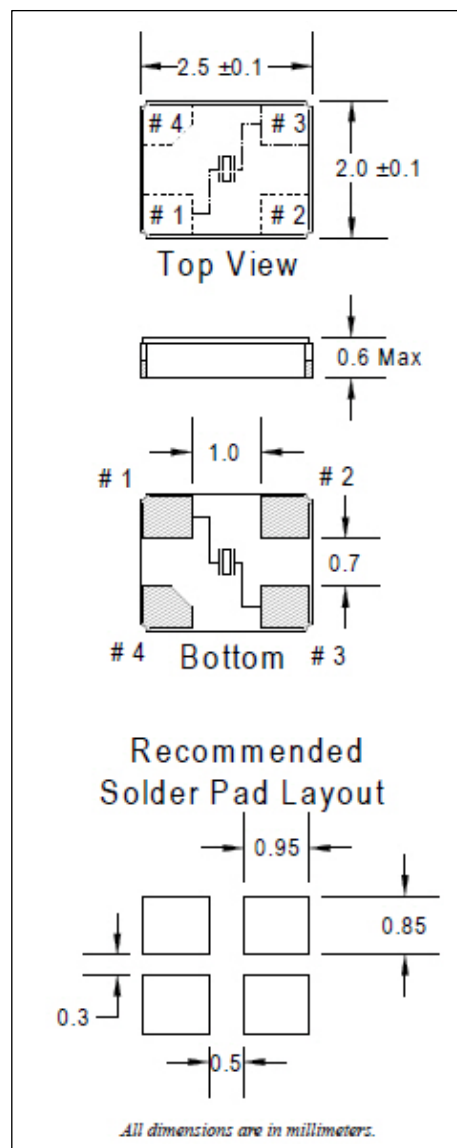
• C2BS STANDARD SPECIFICATIONS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range	12.000 ~ 80.000 MHz
Frequency Tolerance @ 25°C	(See options on page 2)
Frequency Stability, ref @ 25°C Over Operating Temp Range	(See options below)
Temperature Range Operating (T _{OPR}) Storage (T _{STG})	(See options below) -55°C ~ +125°C
Shunt Capacitance (C ₀)	3 pF
Load Capacitance (C _L)	(See options on page 2)
Drive Level	100 µW
Aging per year	±5 PPM
Reflow Soldering Temperature	260°C x 10 Seconds (2 Cycles)
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Seal Method	Seam Seal
Lead (Pb) Free	Yes
RoHS / REACH Compliant	Yes

Developed Frequencies

16.000	19.200
19.680	19.800
24.000	26.000
32.000	48.000
54.000	

Frequency Range (MHz)	Operating Mode	Max ESR Ω
12.000 ~ 15.999999	Fundamental	150
16.000 ~ 19.999999	Fundamental	100
20.000 ~ 29.999999	Fundamental	80
30.000 ~ 80.000	Fundamental	50



• Available Operating Temperatures and Stabilities*

Operating Temperature	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM
-10°C to +60°C	O	O	O	O	O	O
-20°C to +70°C	O	O	O	O	O	O
-40°C to +85°C	X	O	O	O	O	O

Key: O=Available, X=Not Available, Δ=Consult Fox Technical Support

*Does not imply a stocked part.

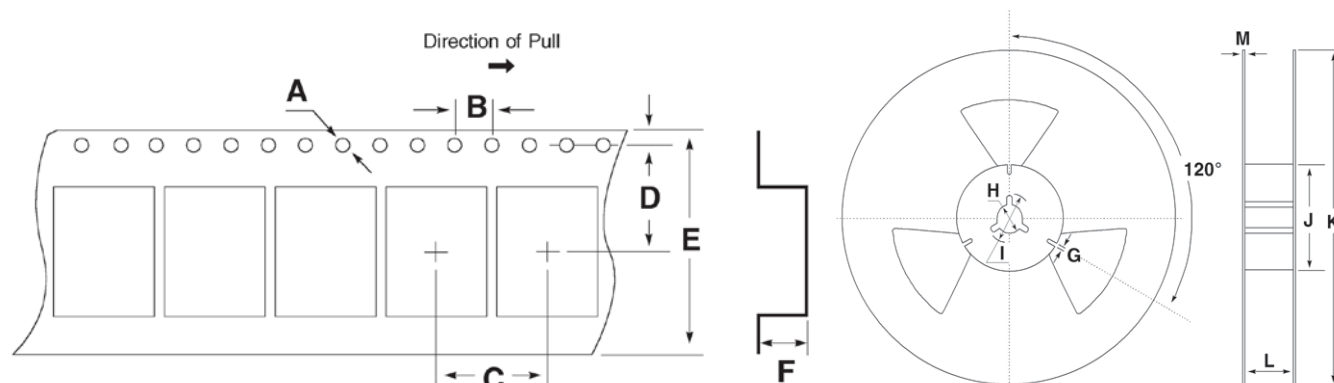




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• TAPE SPECIFICATIONS (millimeters)							• REEL SPECIFICATIONS (millimeters)						
A	B	C	D	E	F	STD Reel QTY	G	H	H	J	K	L	M
Ø1.5	4.0	4.0	3.5	8.0	0.65	3,000	2.0	Ø13	Ø21	Ø60	Ø180	9.0	2.0



Available Options & Part Identification for Ceramic SMD Crystal C2BS*

F C2BS C C D M 24.0

F	C2BS	C	C	D	M	24.0
FOX	Model Number	Tolerance B=50ppm C=30ppm D=25ppm E=20ppm F=15ppm H=10ppm	Stability B=50ppm C=30ppm D=25ppm E=20ppm F=15ppm H=10ppm	Load Capacitance D=8pF W=9pF E=10pF G=12pF L=18pF M=20pF	Operating Temperature D=-10 to +60C F=-20 to +70C M=-40 to +85C	Frequency (MHz)

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



Corporate
Headquarters
5570 Enterprise Parkway
Fort Myers, FL 33905
<http://www.FOXONLINE.com>

Sales
1-888-GET-2-FOX (1-888-438-2369) or
1-239-693-0099
<http://www.FOXONLINE.com/repdisty>

Tech Support
<http://www.FOXONLINE.com/email>

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	Title / Description: C2BS STANDARD SPECIFICATIONS		
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