

2.5x4.0mm Ceramic SMD Crystal C4BS

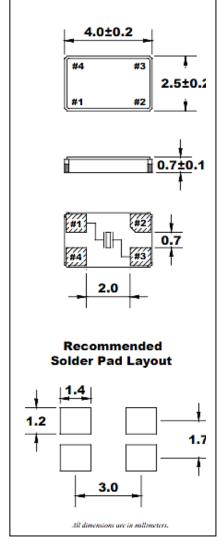
(former FX425B)

DATASHEET

- Tolerances down to ±10 PPM
- Stabilities down to ±5 PPM
- Temperature Ranges as wide as -40°C to +85°C

• SPECIFICATIONS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range	12.000 ~ 50.000 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)	5 pF
Load Capacitance (C _I)	(See options on page 2)
Drive Level	0.1 mW
Aging per year	±5.0 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
12.000 ~ 12.999999	Fundamental	120
13.000 ~ 50.000	Fundamental	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 varv.

Available Operating Temperatures and Stabilities*

Stability Temperature	±5 PPM	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM
-10°C to +60°C	0	0	0	0	0	0	0
-20°C to +70°C	Х	0	0	0	0	0	0
-40°C to +85°C	X	X	0	0	0	0	0

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

Ned .	Title / Description: C4BS SERIES STANDARD SPECIFICATIONS				
92	Drawing Number: 101172	Size: A			
FÖX	Part Number:		Cage: 61429		
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^{*}Does not imply a stocked part.



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TAPE SPECIFICATIONS (millimeters)						• REE	L SPEC	CIFICAT	TIONS ((millimet	ers)		
Α	В	С	D	Е	F	STD Reel	G	Н	- 1	J	K	٦	M
Ø1.5	4.0	4.0	5.5	12.0	1.3	1,000	2.0	Ø 13	Ø 21	Ø 80	Ø 180	13.5	2.0
	000	0 0 0	<u>A</u>	→ B	on of Pull	↓ ↑ D ↓ E	F		H	\	120°	J K	

Available Options & Part Identification for Automotive Crystal Model C4BS* F C4BS B M D 12.0

F	C4BS	В	В	M	D	12.0
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 L = 5 PPM	Load Capacitance B = 10 pF G = 12 pF U = 13 pF K = 16 pF L = 18 pF M = 20 pF R = 32 pF	Operating <u>Temperature</u> 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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