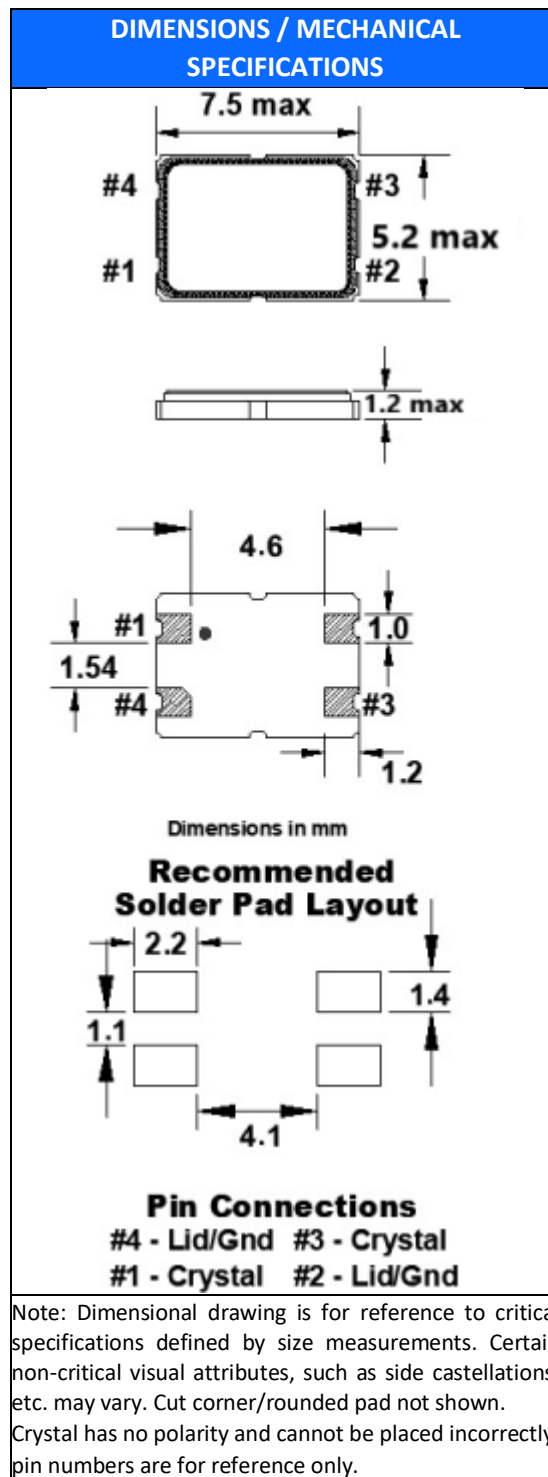


Features

- Tolerances down to ± 10 PPM
- Stabilities down to ± 5 PPM
- Operating Temperature Range to $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	6.000 ~ 50.000 MHz
Frequency Tolerance @ 25°C	(See options below)
Frequency Stability, ref 25°C	(See options below)
Temperature Range	
Operating (T_{OPR})	(See options below)
Storage (T_{STG})	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Shunt Capacitance (C_0)	5 pF
Load Capacitance (C_L)	(See options below)
Drive Level	
6.000 ~ 50.000 MHz	0.5 mW
Aging per year (@ 25°C)	± 3 PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL) per J-STD-033	Not Applicable
Termination Finish	Au over Ni
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS Compliant	Yes

Frequency Range (MHz)	Operating Mode	Max ESR Ω
6.000 ~ 9.999999	Fundamental	80
10.000 ~ 15.999999	Fundamental	50
16.000 ~ 31.999999	Fundamental	40
32.000 ~ 39.999999	Fundamental	30
40.000 ~ 50.000000	Fundamental	20



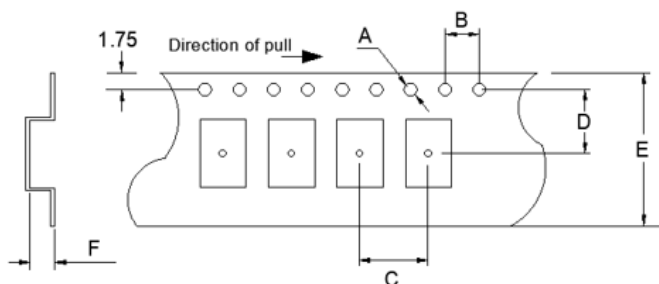
AVAILABLE OPERATING TEMPERATURES AND STABILITIES*

Operating Temperature	±5 PPM	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
-0°C ~ +70°C	X	O	O	O	O	O	O	N/A
-10°C ~ +60°C	O	O	O	O	O	O	O	N/A
-10°C ~ +70°C	X	O	O	O	O	O	O	N/A
-20°C ~ +70°C	X	O	O	O	O	O	O	N/A
-30°C ~ +85°C	X	X	O	O	O	O	O	N/A
-40°C ~ +85°C	X	X	O	O	O	O	O	N/A
-40°C ~ +105°C	X	X	X	X	X	X	O	O
-40°C ~ +125°C	X	X	X	X	X	X	O	O
-55°C ~ +155°C	X	X	X	X	X	X	O	O

Key: O = Available, X = Not Available, N/A = Not Applicable

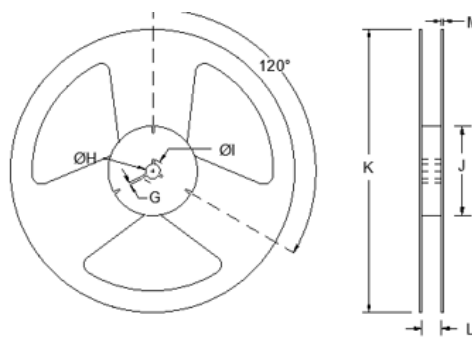
TAPE SPECIFICATIONS (mm)

A	B	C	D	E	F	REEL QTY
ø1.55	4.0	8.0	7.5	16.0	1.7	-T1 = 1,000 -T2 = 2,000



REEL SPECIFICATIONS (mm)

G	H	I	J	K	L	M
2.0	ø13	ø21	ø60 ø80	ø180 ø250	17.5	2.0



Available Options & Part Identification for Crystal Model C7BS ¹							
Sample PN: <u>FC7BSBBMD25.0-T1</u>							
F	C7BS	B	B	M	D	25.0	-T1
<u>Fox</u>	<u>Model Number</u>	<u>Tolerance</u> B = ± 50 PPM C = ± 30 PPM D = ± 25 PPM E = ± 20 PPM F = ± 15 PPM H = ± 10 PPM	<u>Stability</u> A = ± 100 PPM B = ± 50 PPM C = ± 30 PPM D = ± 25 PPM E = ± 20 PPM F = ± 15 PPM H = ± 10 PPM L = ± 5 PPM	<u>Load Capacitance</u> ² E = 10pF G = 12pF J = 15pF K = 16pF L = 18pF M = 20pF	<u>Operating Temperature</u> 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	<u>Frequency (MHz)</u>	<u>Values Added Options</u> Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs

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

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

Reliability Test Conditions
Please contact Abracon Quality Assurance department

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

[FC7BSCBLM8.0-T2](#) [FC7BSCBLM8.0-T1](#) [FC7BSCCJC10.0-T2](#) [FC7BSCCJD8.0-T1](#) [FC7BSCCJD8.0-T2](#)
[FC7BSCCMC6.0-T2](#) [FC7BSDCMM6.0-T1](#) [FC7BSDDMM8.0-T1](#) [FC7BSDDMM8.0-T2](#) [FC7BSCCJF10.0-T1](#)
[FC7BSDCMM6.0-T2](#) [FC7BSCCGF6.0-T1](#) [FC7BSBBGM6.0-T2](#) [FC7BSCCGM8.0-T1](#) [FC7BSCCJF10.0-T2](#)
[FC7BSCCMD8.0-T2](#) [FC7BSECMM6.0-T1](#) [FC7BSBBGM25.0-T2](#) [FC7BSCBMM8.0-T2](#) [FC7BSCCJC10.0-T1](#)
[FC7BSCCLC14.31818-T1](#) [FC7BSBBGD30.0-T1](#) [FC7BSBBGD30.0-T2](#) [FC7BSCCLM6.0-T1](#) [FC7BSCCLM6.0-T2](#)
[FC7BSBBGM12.0-T1](#) [FC7BSBBGM12.0-T2](#) [FC7BSCCGF6.0-T2](#) [FC7BSCCGM6.0-T1](#) [FC7BSCCMF8.0-T2](#)
[FC7BSBBED25.0-T2](#) [FC7BSBBGM6.0-T1](#) [FC7BSBBMM25.0-T2](#) [FC7BSCCLC14.31818-T2](#) [FC7BSCCMC10.0-T2](#)
[FC7BSCCMM8.0-T2](#) [FC7BSEEMM8.0-T2](#) [FC7BSCBMM8.0-T1](#) [FC7BSCCGM6.0-T2](#) [FC7BSCCKF10.446875-T1](#)
[FC7BSCCMC11.0592-T2](#) [FC7BSECMM6.0-T2](#) [FC7BSHLAD123.2-1-BULK](#) [FC7BSBBEM216.0-BULK](#)
[FC7BSCCEF8.0-T2](#) [FC7BSCCMC8.0-T2](#) [FC7BSEEMM8.0-T1](#) [FC7BSCCEF8.0-T1](#) [FC7BSCCGM8.0-T2](#)
[FC7BSEBLF25.0-T1](#) [FC7BSBBED25.0-T1](#) [FC7BSBBMM25.0-T1](#) [FC7BSCBKM27.0-1-BULK](#) [FC7BSCCLF7.3728-T1](#)
[FC7BSCCLF7.3728-T2](#) [FC7BSEBLF8.0-T1](#) [FC7BSBBEM216.0-T1](#) [FC7BSBBEM216.0-T2](#) [FC7BSBBNP16.0-1-T1](#)
[FC7BSCBKM27.0-1-T1](#) [FC7BSCBMM7.3728-T1](#) [FC7BSCBMM7.3728-T2](#) [FC7BSCCMM7.3728-T2](#) [FC7BSHELM24.0-T1](#)
[FC7BSHELM24.0-T2](#) [FC7BSLELF15.36-T1](#) [FC7BSLHKD27.12-T1](#) [FC7BSLHKD40.68-T1](#) [FC7BSCCEM6.0-T1](#)
[FC7BSCCGF10.779375-T1](#) [FC7BSCCLM7.3728-T1](#) [FC7BSCCLM7.3728-T2](#) [FC7BSCCMC11.0592-T1](#)
[FC7BSCCMC7.3728-T2](#)