

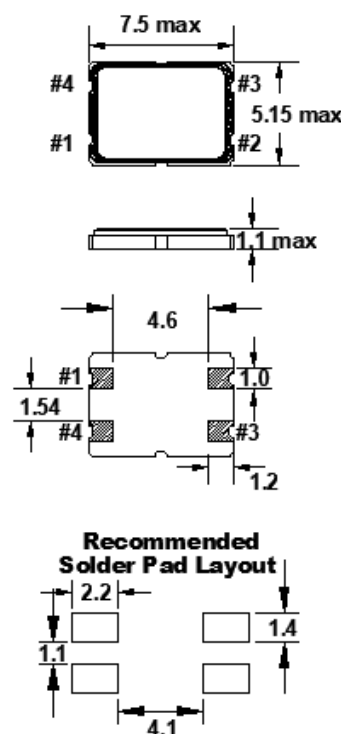
Features

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

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

DIMENSIONS / MECHANICAL SPECIFICATIONS



Dimensions in mm

Pin Connections

#4 - Lid/Gnd #3 - Crystal
#1 - Crystal #2 - Lid/Gnd

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. Cut corner/rounded pad not shown. Crystal has no polarity and cannot be placed incorrectly; pin numbers are for reference only.

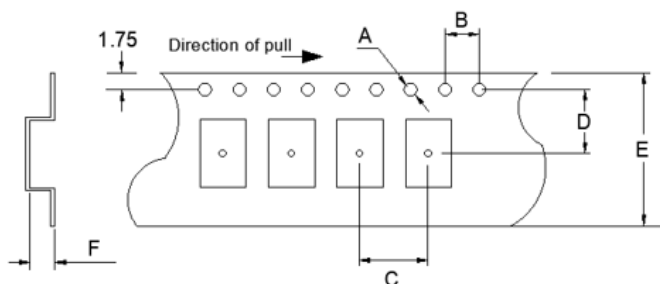
AVAILABLE OPERATING TEMPERATURES AND STABILITIES*

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

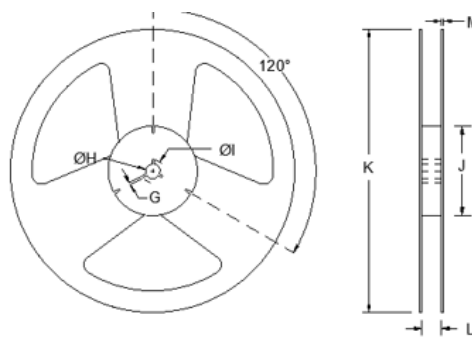
TAPE SPECIFICATIONS (mm)

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	ø80	ø250	17.5	2.0



Available Options & Part Identification for Crystal Model C7BS ¹							
Sample PN: FC7BSBBMD25.0-T1							
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

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ABRACON:

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[FC7BSCCMM7.3728-T1](#) [FC7BSCCMM8.0-T1](#) [FC7BSCBLM8.0-T2](#) [FC7BSCBLM8.0-T1](#) [FC7BSCCJC10.0-T2](#)
[FC7BSCCJD8.0-T1](#) [FC7BSCCJD8.0-T2](#) [FC7BSCCMC6.0-T2](#) [FC7BSCDCMM6.0-T1](#) [FC7BSDDMM8.0-T1](#)
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[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](#) [FC7BSCCMF8.0-T1](#) [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](#) [FC7BSCCMD8.0-T1](#)
[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](#) [FC7BSBBGM25.0-T1](#) [FC7BSBBED25.0-T1](#) [FC7BSBBMM25.0-T1](#) [FC7BSCBKM27.0-1-BULK](#)
[FC7BSCCLF7.3728-T1](#) [FC7BSCCLF7.3728-T2](#) [FC7BSBBEM216.0-T1](#) [FC7BSBBEM216.0-T2](#) [FC7BSBBNP16.0-1-T1](#)
[FC7BSCBKM27.0-1-T1](#) [FC7BSCBMM7.3728-T1](#) [FC7BSCBMM7.3728-T2](#) [FC7BSCCMM7.3728-T2](#)
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[FC7BSCCEM6.0-T1](#) [FC7BSCCGF10.779375-T1](#) [FC7BSCCLM7.3728-T1](#) [FC7BSCCLM7.3728-T2](#)
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