

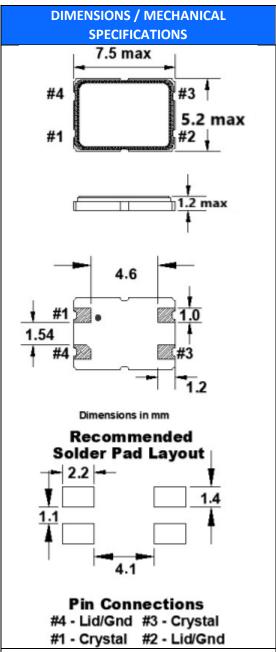
(Former FD)

Features

- Tolerances down to ±10 PPM
- Stabilities down to ±5 PPM
- Operating Temperature Range to –55°C ~ +125°

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°C ~ +125°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	Not Applicable						
J-STD-033							
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



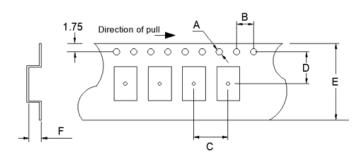
Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary. Cut corner/rounded pad not shown. Crystal has no polarity and cannot be placed incorrectly; pin numbers are for reference only.



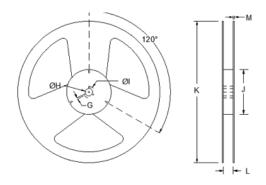
(Former FD)

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	Х	0	0	0	0	0	0	N/A	
-10°C ~+60°C	0	0	0	0	0	0	0	N/A	
-10°C ~ +70°C	Х	0	0	0	0	0	0	N/A	
-20°C ~+70°C	Х	0	0	0	0	0	0	N/A	
-30°C ~ +85°C	Х	Χ	0	0	0	0	0	N/A	
-40°C ~+85°C	Х	Х	0	0	0	0	0	N/A	
-40°C ~ +105°C	Х	Х	Χ	Х	Χ	Х	0	0	
-40°C ~+125°C	Х	Х	Х	Х	Χ	Х	0	0	
-55°C ~+155°C	Х	Х	Х	Х	Х	Х	0	0	
Key: $O = Available$, $X = Not Available$, $N/A = Not Applicable$									

TAPE SPECIFICATIONS (mm)								
Α	В	С	D	E	F	REEL QTY		
ø1.55	4.0	8.0	7.5	16.0	1.7	-T1 = 1,000		
ψ1.55	4.0	6.0	7.5		1.7	-T2 = 2,000		



	REEL SPECIFICATIONS (mm)								
G	Н		- 1	J	K	L	М		
2.0	2.0 Ø13	Ø21	Ø60 Ø80	Ø180	17.5	2.0			
2.0			Ø80	Ø250	17.5	2.0			





(Former FD)

7mm x 5mm





Available Options & Part Identification for Crystal Model C7BS¹ Sample PN: FC7BSBBMD25.0-T1 -T1 F **C7BS** В В D 25.0 M **Values Added Fox** Model Tolerance Stability Load Operating **Frequency** B = ±50 PPM $A = \pm 100 PPM$ Number Capacitance² **Temperature** (MHz) **Options** $C = \pm 30 PPM$ $B = \pm 50 PPM$ $C = 0 \text{ to } +70^{\circ}C$ E = 10pFBlank = Bulk $C = \pm 30 PPM$ $D = \pm 25 PPM$ G = 12pF $D = -10 \text{ to } +60^{\circ}\text{C}$ T1 = 1,000 pcs $E = \pm 20 PPM$ $D = \pm 25 PPM$ J = 15pF $E = -10 \text{ to } +70^{\circ}\text{C}$ T2 = 2,000 pcs $F = \pm 15 PPM$ $E = \pm 20 PPM$ K = 16pF $F = -20 \text{ to } +70^{\circ}\text{C}$ $H = \pm 10 PPM$ $F = \pm 15 PPM$ $K = -30 \text{ to } +85^{\circ}\text{C}$ L = 18pF $H = \pm 10 PPM$ M = 20pF $M = -40 \text{ to } +85^{\circ}\text{C}$ $L = \pm 5 PPM$ $P = -40 \text{ to } +105^{\circ}\text{C}$ $I = -40 \text{ to } +125^{\circ}\text{C}$ T = -55 to +125°C

Reliability Test Conditions

Please contact Abracon Quality Assurance department

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