





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	$\textbf{Max ESR} \Omega$
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



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	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	Х	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	Х	Х	Х	Х	0	0
-40°C ~+125°C	Х	Х	Х	Х	Х	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)							
A B C D E F REEL QTY						REEL QTY	
ø1.55	4.0	8.0	7.5	16.0	1.7	-T1 = 1,000	
Ø1.55	4.0	8.0 7.5 10.	10.0	1.7	-T2 = 2,000		



REEL SPECIFICATIONS (mm)						
G	Н	I	J	К	L	М
2.0	Ø13	Ø21	Ø60 Ø80	Ø180 Ø250	17.5	2.0



FC7BS (Former FD)



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