FC6BS (Former FMB)





Features

- Tolerances down to 10 PPM
- Stabilities down to 5 PPM
- Temperature Ranges as wide as -55°C to +125°C

STANDARD SPECIFICATIONS						
PARAMETERS	MAX (Unless otherwise noted)					
Frequency Range	7.3728 ~ 133.000 MHz					
Frequency Tolerance @ 25°C	(See options below)					
Frequency Stability, ref 25°C	(See options below)					
Temperature Range						
Operating (TOPR)	(See options below)					
Storage (T _{STG})	-55°C ~ +125°C	55°C ~ +125°C				
Shunt Capacitance (C ₀)	5.0 pF					
Load Capacitance (C _L)	(See options below)					
Drive Level	100µW					
Aging per year (@ 25°C)	±5 PPM					
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2					
Moisture Sensitivity Level (MSL) per	1	1				
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				
7.3728 ~ 7.999999	Fundamental	100				
8.000 ~ 9.999999	Fundamental	70				
10.000 ~ 11.999999	Fundamental	50				
12.000 ~ 19.999999	Fundamental	30				
20.000 ~ 24.999999	Fundamental	25				
25.000 ~ 200.000	Fundamental 20					
40.000 ~ 51.999999	3 RD OT	100				
52.000 ~ 71.999999	3 RD OT	80				



1.3 Dimensions in mm

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.

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 ~ +125°C	Х	Х	Х	Х	Х	Х	0	0
Key: O = Available, X = Not Available, N/A=Not Applicable, *Does not imply a stocked part.								

70

3RD OT

Revised B: 7/21/2021

72.000 ~ 133.000

FC6BS

6mm x 3.5mm



(Former FMB)

Ceramic SMD Crystal

TAPE SPECIFICATIONS (mm)					REEL SPECIFICATIONS (mm)								
Α	В	С	D	E	F	REEL QTY	G	Н	I	J	К	L	М
ø1.55	4.0	8.0	5.5	12.0	1.8	-T1 = 1,000 -T2 = 2,000	2.0	Ø13	Ø21	Ø80	Ø178	13.5	2.0





Available Options & Part Identification for Ceramic SMD Crystal FC6BS ¹ Sample PN: FC6BSCCEM25.0-T1								
F	C6BS	С	С	E	М	25.0	-T1	
<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	C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM	Load Capacitance ² V = 7pF E = 10pF G = 12pF J = 15pF K = 16pF L = 18pF M = 20pF N = 22pF	$\frac{Operating}{Temperature}$ 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</u> <u>(MHz)</u>	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	