

2 inch Copper M (Red) Chime Length Calculator for the C-9 Chord (C E G B<sup>b</sup> D) Inches  
 A-440 For a Tube or Rod unrestricted at both ends

To determine the resonant frequency for a rod set the ID=0 and enter the OD and Metal Type

Enter values in **BLUE**, answers in **ORANGE** (inches) and in **YELLOW** (mm)

OD inches = <b>2.125</b>		ID inches = <b>2.009</b>		Metal = <b>Copper</b> < Click to Select							
Wall = 0.058 inches		Length calculated for fundamental F Hang Point is for fundamental F node									
Note	Freq Hz	Length inches	Hang Point	Length mm	Hang Point	Note	Freq Hz	Length inches	Hang Point	Length mm	Hang Point
C1	32.70	105	23 9/16	2667.0	597.9	C5	523.30	26 1/4	5 7/8	666.8	149.5
E	41.21	93 1/2	20 15/16	2374.9	532.5	E	659.30	23 3/8	5 1/4	593.7	133.1
G	49.00	85 3/4	19 1/4	2178.1	488.3	G	784.00	21 7/16	4 13/16	544.5	122.1
A <sup>#</sup> /B <sup>b</sup>	58.30	78 5/8	17 5/8	1997.1	447.7	A <sup>#</sup> /B <sup>b</sup>	932.30	19 11/16	4 7/16	500.1	112.1
D2	73.41	70 1/16	15 11/16	1779.6	399.0	D6	1,174.61	17 1/2	3 15/16	444.5	99.7
Total feet =		36.1	Total cm=	1099.7		Total feet required		9.0	Total cm=	275.0	
C2	65.40	74 1/4	16 5/8	1886.0	422.8	C6	1,046.50	18 9/16	4 3/16	471.5	105.7
E	82.40	66 1/8	14 13/16	1679.6	376.6	E	1,318.50	16 9/16	3 11/16	420.7	94.3
G	98.01	60 5/8	13 9/16	1539.9	345.2	G	1,568.00	15 3/16	3 3/8	385.8	86.5
A <sup>#</sup> /B <sup>b</sup>	116.50	55 5/8	12 1/2	1412.9	316.8	A <sup>#</sup> /B <sup>b</sup>	1,864.60	13 7/8	3 1/8	352.4	79.0
D3	146.80	49 9/16	11 1/8	1258.9	282.2	D7	2,349.20	12 3/8	2 3/4	314.3	70.5
Total feet required		25.5	Total cm=	777.7		Total feet required		6.4	Total cm=	194.5	
C3	130.81	52 1/2	11 3/4	1333.5	299.0	C7	2,093.00	13 1/8	2 15/16	333.4	74.7
E	164.80	46 3/4	10 1/2	1187.5	266.2	E	2,637.00	11 11/16	2 5/8	296.9	66.6
G	196.00	42 7/8	9 5/8	1089.0	244.2	G	3,136.00	10 3/4	2 7/16	273.1	61.2
A <sup>#</sup> /B <sup>b</sup>	233.10	39 5/16	8 13/16	998.5	223.9	A <sup>#</sup> /B <sup>b</sup>	3,729.20	9 13/16	2 3/16	249.2	55.9
D4	293.70	35	7 7/8	889.0	199.3	D8	4,698.40	8 3/4	1 15/16	222.3	49.8
Total feet required		18.0	Total cm=	549.8		Total feet required		4.5	Total cm=	137.5	
C4	261.60	37 1/8	8 5/16	943.0	211.4						
E	329.61	33 1/16	7 7/16	839.8	188.3						
G	392.00	30 5/16	6 13/16	769.9	172.6						
A <sup>#</sup> /B <sup>b</sup>	466.20	27 13/16	6 1/4	706.4	158.4						
D5	587.30	24 3/4	5 9/16	628.7	140.9						
Total feet required		12.8	Total cm=	388.8							
<b>Calculate Length or Frequency for ID &amp; OD entered above</b>											
Enter F=	<b>220.00</b>	40 1/2	9 1/16	1028.7	230.6	<b>Convert</b>	<b>2.000</b>	inches to	50.8	mm	
		Enter L ↓					<b>60</b>	mm to	2 3/8	inches	
F=	775.10	<b>21 9/16</b>	4 13/16	547.7	122.8	<a href="https://leehite.org/Chimes.htm">https://leehite.org/Chimes.htm</a>					