

BANDPASS SPREADSHEET
BY JOHN KRUTKE

SPEAKER: CCLINE 10" 4 OHM

S	Q'T	FL/ (FS/QT)
0.6	0.5	0.21804
0.6	0.55	0.2585592
0.6	0.6	0.2999728
0.6	0.65	0.3419808
0.6	0.7	0.3846832
0.6	0.75	0.42808
0.6	0.8	0.4721712
0.6	0.85	0.5169568
0.6	0.9	0.5624368

S	Q'T	FL/ (FS/QT)
0.7	0.5	0.26273
0.7	0.55	0.3061119
0.7	0.6	0.3501896
0.7	0.65	0.3949631
0.7	0.7	0.4404324
0.7	0.75	0.4865975
0.7	0.8	0.5334584
0.7	0.85	0.5810151
0.7	0.9	0.6292676

QTS---->
FS---->
VAS, FT^3---->

^=====INPUT==THESE==PARAMETERS=====^

=====	FH/ (FS/QT)	FL -3DB =====
		1.16097 18.0892444444444
		1.2001927 21.4508373333333
		1.2399768 24.8866322962963
		1.2803223 28.3717404444444
		1.3212292 31.9144580740741
		1.3626975 35.5147851851852
		1.4047272 39.1727217777778
		1.4473183 42.8882678518518
		1.4904708 46.6614234074074

=====	FH/ (FS/QT)	FL -3DB =====
		0.979465000000002 21.7968592592592
		1.0214504 25.3959502222222
		1.0639986 29.0527668148148
		1.1071096 32.767309037037
		1.1507834 36.5395768888889
		1.19502 40.3695703703704
		1.2398194 44.2572894814815
		1.2851816 48.2027342222222
		1.3311066 52.2059045925926

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0.27 VENT RADIUS,INCHES-----> 1.5
 22.4 ALT. VENT RAD,INCHES---> 2
 4.35

FH -3DB	PA	BW Hz.	FB Hz.	VF V vent FT^3
96.3175111111112	-8.53648	78.5244444444445	41.4814814814815	0.4566456
99.5715425185187	-7.0912187	78.5244444444445	45.6296296296296	0.4566456
102.8721493333333	-5.7030648	78.5244444444445	49.7777777777778	0.4566456
106.2193315555556	-4.3720183	78.5244444444445	53.9259259259259	0.4566456
109.613089185185	-3.0980792	78.5244444444445	58.0740740740741	0.4566456
113.0534222222222	-1.8812475	78.5244444444445	62.2222222222222	0.4566456
116.5403306666667	-0.721523200000004	78.5244444444445	66.3703703703704	0.4566456
120.073814518519	0.381093699999996	78.5244444444445	70.5185185185185	0.4566456
123.653873777778	1.4266032	78.5244444444445	74.6666666666667	0.4566456

FH -3DB	PA	BW Hz.	FB Hz.	VF V vent FT^3
81.2593185185187	-6.13875	59.8411851851852	41.4814814814815	0.6215454
84.7425517037038	-4.5668804	59.8411851851852	45.6296296296296	0.6215454
88.2724764444446	-3.0726936	59.8411851851852	49.7777777777778	0.6215454
91.8490927407409	-1.6561896	59.8411851851852	53.9259259259259	0.6215454
95.4724005925927	-0.317368400000003	59.8411851851852	58.0740740740741	0.6215454
99.1424000000001	0.943770000000001	59.8411851851852	62.2222222222222	0.6215454
102.859090962963	2.1272256	59.8411851851852	66.3703703703704	0.6215454
106.622473481482	3.2329984	59.8411851851852	70.5185185185185	0.6215454
110.432547555556	4.2610884	59.8411851851852	74.6666666666667	0.6215454

Sheet1

AREA: 7.0685834715
 AREA: 12.566370616

VB V clsd FT^3	VT TOT. FT^3	PORT LENGTH INCHES	ALT. PORT LENGTH INCHES
1.79059853190288	2.24724413190288	21.853707409688	39.9177020616676
1.38116289198606	1.83780849198606	17.6443862889984	32.4344645137749
1.10454545454545	1.56119105454545	14.4428523678389	26.7428486539358
0.907079519450801	1.3637251194508	11.9513061595787	22.3134331725844
0.760285303284584	1.21693090328458	9.97434051514695	18.7988275824835
0.647702205882353	1.10434780588235	8.3794255154169	15.9634231385189
0.559187092223594	1.01583269222359	7.07410445690938	13.6428523678389
0.488169642857143	0.944815242857143	5.99228630093011	11.7196200905424
0.43021978021978	0.88686538021978	5.08571216348396	10.1079327350826

VB V clsd FT^3	VT TOT. FT^3	PORT LENGTH INCHES	ALT. PORT LENGTH INCHES
1.79059853190288	2.41214393190288	15.4190503418116	28.4783117187762
1.38116289198606	2.00270829198606	12.3264878857947	22.9804229080795
1.10454545454545	1.72609085454545	9.97434051514695	18.7988275824835
0.907079519450801	1.5286249194508	8.14381677030272	15.5445631472048
0.760285303284584	1.38183070328458	6.69135221521001	12.9624039381511
0.647702205882353	1.26924760588235	5.51957792969405	10.8792496527894
0.559187092223594	1.18073249222359	4.56056653977016	9.17434051514695
0.488169642857143	1.10971504285714	3.76576136394865	7.76135353590872
0.43021978021978	1.05176518021978	3.09970689562087	6.57725670332598