



G5 - High Performance Subwoofers GTR - TunableRadiators™



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Single G5 Enclosure Design Example - Sealed





Model:	G512"	G10"
H = Height:	10.5" (26.7cm)	7.5" (19.1cm)
W = Width:	13.0" (33.1cm)	11.0" (28.0cm)
D = Depth:	13.0" (33.1cm)	11.0" (28.0cm)
Gross Volume:	1.0 Ft ³ (28.3L)	0.5 Ft ³ (14.2L)
Q-Tune ^{™†} : (HP & Q)	28Hz@0.707	33Hz@0.707

Enclosure dimensions are internal and include basket displacement

This enclosure shape is an example and these dimensions can be modified provided that the exact internal volume is retained

¾-inch thick M.D.F. is recommended as a minimum

†Q-Tune[™] is a feature found on Boston GT Amplifiers

Single G5 Enclosure Design Example - Ported



D = Depth:	14" (35.6cm)	14" (35.6cm)
P = Port Clearance [*] :	4" (10cm)	3" (7.6cm)
Gross Volume:	2.0 Ft ³ (56.6L)	1.3 Ft ³ (36.8L)
Port Diameter:	4" (10cm)	3" (7.6cm)
Port Length:	14" (36cm)	11" (28cm)
Q-Tune ^{™†} : (HP & Q)	33Hz@1.0	34Hz@1.0

Enclosure dimensions are internal and include basket and port displacement

This enclosure shape is an example and these dimensions can be modified provided that the exact internal volume is retained and that there is adequate space behind the vent (diameter of port from the back and side walls)

¾-inch thick M.D.F. is recommended as a minimum

*Recommended distance from sides and back walls of enclosure

†Q-Tune[™] is a feature found on Boston GT Amplifiers

G5 Included Hardware

<u></u>						
Model:	G21244	G2124	G21044	G2104		
Hex Key 2.5mm	1	1	1	1		
7.5-Amp Fuse:	2	2	2	2		
T-Nut M4:	8	8	8	8		
Lock Washer M4:	8	8	8	8		
Mounting Screw M4:	8	8	8	8		
Wood Screw M4 x 38mm:	8	8	8	8		





Note: The SureSet[™] feature utilizes standard automotive ATC fuses to select between series or parallel voice-coil operation (DVC only). The fuses also provide voice-coil protection under transient conditions such as accidental momentary overdrive. The fuses will not protect against voice-coil failure resulting from long term high power abuse.

GTR TunableRadiator [™] Included Hardware						
Model:	GTR12	GTR10				
Hex Key 2.5mm	1	1				
T-Nut M4:	8	8				
Lock Washer M4:	8	8				
Mounting Screw M4:	8	8				
Wood Screw M4 x 38mm:	8	8				

Also included with all GTR TunableRadiators[™] is the GTR Tuning Hardware, these parts are individually listed in the GTR TunableRadiator[™] Tuning Hardware section.







G5 Specifications/Enclosure Recommendations							
Model:	G51244	G5124	G51044	G5104			
Nominal Size:	12"	12"	10"	10"			
RMS Power Handling:	450w	450w	450w	450w			
Impedance:	Dual 4Ω	Single 4Ω	Dual 4Ω	Single 4Ω			
Frequency Response: (+/-3dB in car)	20-350Hz	20-350Hz	24-350Hz	24-350Hz			
Mounting Cutout Diameter:	11 3/16" (283mm)	11 3/16" (283mm)	9 1/4" (235mm)	9 1/4" (235mm)			
Mounting Depth:	7 3/8" (187mm)	7 3/8" (187mm)	6 3/4" (171mm)	6 3/4" (171mm)			
Recommended Sealed	1.0 ft ³	1.0 ft ³	0.5 ft ³	0.5 ft ³			
Enclosure Volume*:	(28.3L)	(28.3L)	(14.2L)	(14.2L)			
Q-Tune ^{™†} : (HP & Q Setting)	28Hz@0.7	28Hz@0.7	33Hz@0.7	33Hz@0.7			
Recommended Ported Enclosure Volume*:	2.0 ft³ (56.6L)	2.0 ft³ (56.6L)	1.3 ft³ (36.8L)	1.3 ft³ (36.8L)			
Vent Diameter:	4" (10cm)	4" (10cm)	3" (7.6cm)	3" (7.6cm)			
Vent Length:	14" (36cm)	14" (36cm)	11" (28cm)	11"(28cm)			
Tuning Frequency:	33Hz	33Hz	34Hz	34Hz			
Q-Tune ^{™†} : (HP & Q Setting)	33Hz@1.0	33Hz@1.0	34Hz@0.9	34Hz@0.9			
*Enclosure volumes include basket and port displacement							



G510 Basket Dimensions



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Model:	G51244	G5124	G51044	G5104		
Nominal Size:	12"	12"	10"	10"		
RMS Power Handling:	450w	450w	450w	450w		
Impedance:	Dual 4Ω	Single 4Ω	Dual 4Ω	Single 4Ω		
Frequency Response: (+/-3dB in car)	20-350Hz	20-350Hz	24-350Hz	24-350Hz		
Mounting Cutout Diameter:	11 3/16" (283mm)	11 3/16" (283mm)	9 1/4" (235mm)	9 1/4" (235mm)		
Mounting Depth:	7 3/8" (187mm)	7 3/8" (187mm)	6 3/4" (171mm)	6 3/4" (171mm)		
Recommended Sealed Enclosure Volume*:	1.0 ft³ (28.3L)	1.0 ft³ (28.3L)	0.5 ft³ (14.2L)	0.5 ft³ (14.2L)		
Q-Tune ^{™†} : (HP & Q Setting)	28Hz@0.7	28Hz@0.7	33Hz@0.7	33Hz@0.7		
Recommended Ported Enclosure Volume*:	2.0 ft³ (56.6L)	2.0 ft ³ (56.6L)	1.3 ft³ (36.8L)	1.3 ft³ (36.8L)		
Vent Diameter:	4" (10cm)	4" (10cm)	3" (7.6cm)	3" (7.6cm)		
Vent Length:	14" (36cm)	14" (36cm)	11" (28cm)	11"(28cm)		
Tuning Frequency:	33Hz	33Hz	34Hz	34Hz		
Q-Tune ^{™†} : (HP & Q Setting)	33Hz@1.0	33Hz@1.0	34Hz@0.9	34Hz@0.9		
*Enclosure volumes include basket and port displacement †Ω-Tune [™] is a feature found on Boston GT Amplifiers						

G5 Thiele-Small Parameters

Model:	G512-44		G512-4 G510-44		G510-4	
	Parallel	Series		Parallel	Series	
Fs: (Hz)	28.88	28.88	29.65	32.37	32.37	34.51
Re: (Ohms)	1.55	6.20	3.33	1.54	6.16	3.28
Qms:	9.93	9.93	9.94	9.19	9.19	10.47
Qes:	0.49	0.49	0.62	0.50	0.50	0.58
Qts:	0.47	0.47	0.58	0.47	0.47	0.55
Vas: (Liters)	75.28	75.28	74.53	29.77	29.77	29.54
Mms: (Grams)	148.5	148.5	135.8	122.4	122.4	109.4
Cms: (µM/Newton)	215	215	213	198	198	197
Xmax: (Mm)	15.0	15.0	15.3	15.0	15.0	15.3
Xmech: (Mm)	45.0	45.0	45.0	45.0	45.0	45.0
Sd: (CM ²)	499	499	499	327	327	327
Bl: (Tesla-M)	9.15	18.30	11.72	8.76	17.52	11.60
SPL Eff: (dB @ 1w/1m)	87.2	87.2	86.8	84.9	84.9	85.0
SPL Sen: (dB @ 2.83v)	94.3	88.3	90.6	92.0	86.0	88.9