DD AUDIO

TRUE TO THE SOURCE

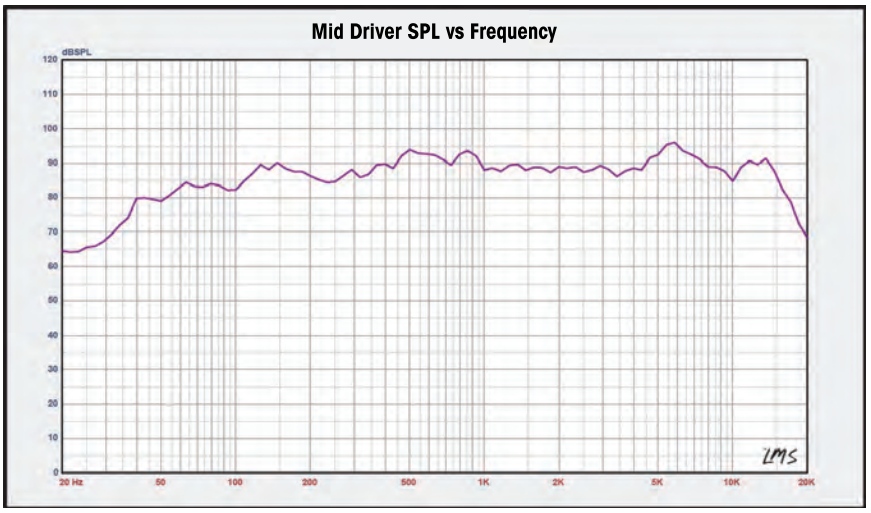
BC6.5 COMPONENT SET

Congratulations on your purchase of the DD Audio BC6.5 Component Set. The BC6.5 components offer incredible audio quality with many features found only on high end sound quality components. When correctly installed the BC6.5 Components will provide years of listening pleasure.

Thank You,
DD Audio

Mid Driver:

Through advanced metallurgy techniques the BC6.5's anodized aluminum cone mid driver has been optimized with the perfect balance of weight, rigidity, and damping resulting in a driver that is able to efficiently produce a wide bandwidth of silky smooth mid range. We used a cast aluminum basket for extra rigidity, heat dissipation, and minimal parasitic magnetic absorption. For durability and installation convenience, we outfitted it with heavy duty chrome push terminals. Topping off the veritable cornucopia of performance features is the use of a shorting ring. You can't see this feature, but what it does for the driver is almost magical. It minimizes back emf and inductance resulting in lower harmonic distortion, better high end extension, better power delivery to the voice coil, and it even helps with heat dissipation.

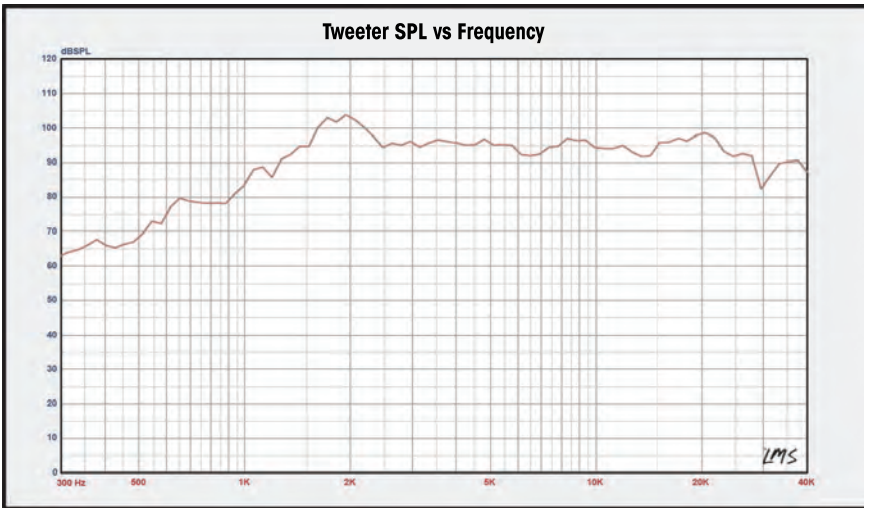


MID DRIVER SPECIFICATIONS		
Nominal Impedance (Zn)	4.0	Ω
DC Resistance (Re)	3.4	Ω
Maximum Impedance(Zm)	61.513	Ω
Minimum impedance/at freq (Zmin)	4.112/134	Ω/Hz
Voice Coil Inductance (Le)	0.35	mH@1khz
TS Parameters		
Resonance Frequency (fs/fo)	35.270/51.676	Hz
Mechanical Q Factor (Qms)	7.166	
Electrical Q Factor (Qes)	0.422	
Total Q Factor (Qts)	0.398	
Force Factor (BL)	5.969	T-M
Moving Mass without Air Load (Mmd)	12.765	g
Moving Mass including Air Load(Mms)	13.605	g
Suspension Compliance (Cms)	0.698	M/N
Effective Piston Area(Sd)	128	cm
Equivalent Volume (Vas)	40.948	Ltrs
reference efficiency(No)	0.503	%
Frequency Response(Free Air)	Fo~8000	Hz@89db
Sensitivity(1W/1M)	89	db
Voice Coil and Magnet Parameters		
Voice Coil Diameter	1.4	Inch
Voice Coil Layer	2	
Voice Coil Former	TIL	
Voice Coil Wire	SV-Copper	
Height of the Gap	6	mm
Linear Excursion	±5.5	mm
Material of Magnet	Sr-Ferrite	
Diameter of Magnet	100	mm
Height of Magnet	17	mm
Magnetic Flux Density	11120	Gauss
Short Ring	Copper	
Weight of Motor	1270	g
Weight of Driver	1450	g
Power Handling		
RMS Power/Peak Handling(IEC-60268)	50-150	W@70Hz
Cone & Surround Material	Black Anodized Aluminum Cone and Bullet Dust Cap with Butyl Rubber Surround	
A - Outside Diameter	6.5"	
B - Cutout Diameter	5.51"	
C - Mounting Depth	2.88"	
D - Motor Diameter	3.90"	
E - Motor Depth	1.12"	
F - Outside Height	0.60"	

Tweeter:

The composite design of the 30mm silk surround aluminum dome tweeter exhibits excellent transparency and resolution, and handles the high end spectrum frequencies with sonic excellence. The tweeter has a vented back for better coil cooling, better frequency response, and lower distortion. The tweeter also features a shorting ring just like the mid driver. The tweeter is able to be surface mounted with the included bezel*, or it can be mounted raw for those tight factory locations.

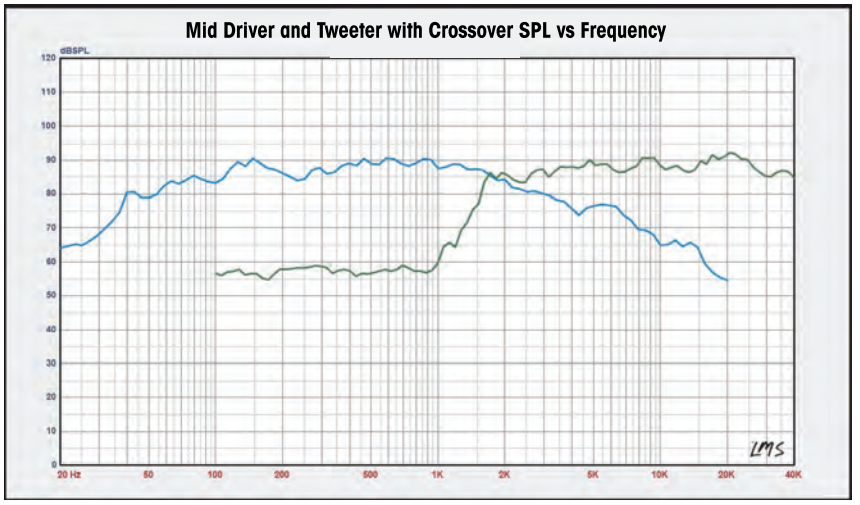
**The tweeter is shipped pressure fit into the surface mount bezel to allow for easy removal if raw mount is desired. When using the surface mount bezel please permanently adhere tweeter to bezel to avoid damage.*

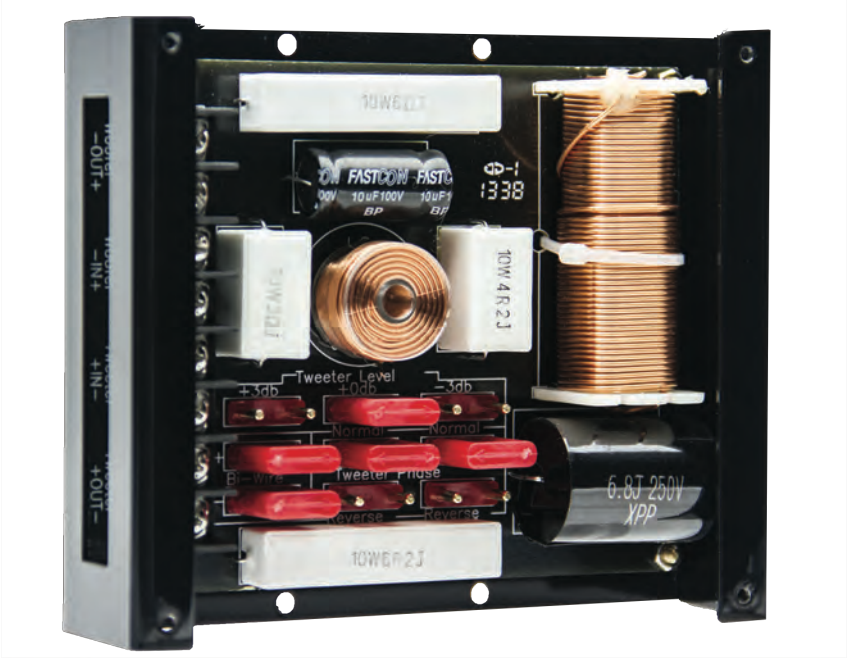


BA DOME TWEETER SPECIFICATION		
Electrical Data	4.0	Ω
Nominal Impedance (Zn)	3.4	Ω
DC Resistance (Re)	3.4	Ω
Maximum Impedance(Zm)	7.023	Ω
Minimum impedance/at freq (Zmin)	3.618/12.5	Ω/KHz
Voice Coil Inductance (Le)	N/A	mH
TS Parameters		
Resonance Frequency (fs)	427.368	Hz
Mechanical Q Factor (Qms)	0.203	
Electrical Q Factor (Qes)	0.530	
Total Q Factor (Qts)	0.147	
Force Factor (BL)	3.807	T-M
Suspension Compliance (Cms)	176.582u	M/N
Effective Piston Area(Sd)	8.657	cm^2
Reference efficiency(No)	0.2	%
Frequency Response	1500~23K	Hz
Sensitivity	94	db
Voice Coil and Magnet Parameters		
Voice Coil Diameter	1	inch
Voice Coil Layer	2	
Voice Coil Former	Polyamide	
Voice Coil Wire	CCAW	
Height of the Gap	2.0	mm
Linear Excursion	±0.4	mm
Material of Magnet	NdFeB	
Diameter of Magnet	24.5	mm
Height of Magnet	6	mm
Quantity of Magnet	1	Pcs
Ferro-Fluid	YES	
Short Ring	Copper	
Diaphragm & Surround Material	Black-Aluminum Dome with Silk Surround	
Power Handling		
RMS Power	35	W
Peak Handling	70	W
A - Outside Diameter	2.00"	
B - Cutout Diameter	1.75"	
C - Mounting Depth	0.5"	
D - Motor Diameter	1.58"	
E - Motor Depth	.40"	
F - Outside Height	.35"	

Crossover:

The included CC1 2nd order bi-ampable passive crossover (also sold separately) is both eye pleasing with it's dual finish metal chassis and hidden speaker terminals, and highly functional. It features +/- 3db tweeter attenuation, tweeter phase shift, selectable conventional or bi-amp input mode, air core coils, and metalized film caps.





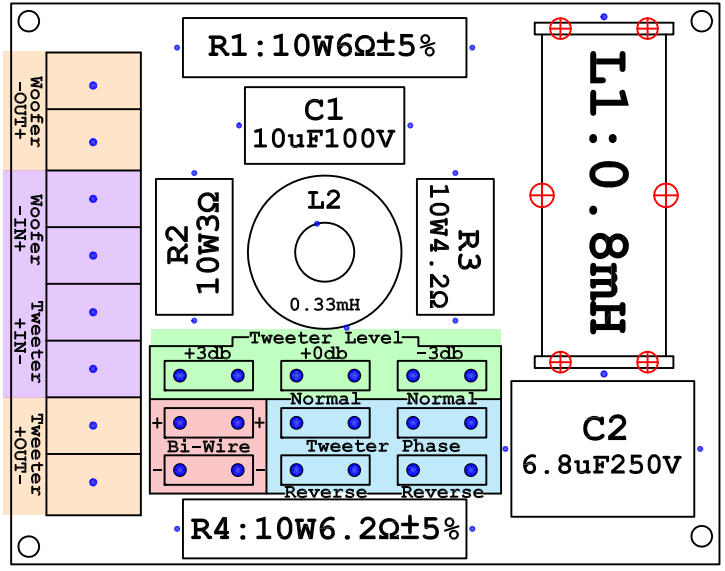
DD CC1 DIAGRAM

The areas outlined in orange indicate the terminals used for high-level woofer and tweeter audio output to speakers.

The area outlined in purple indicates the terminals used for high-level audio input from an amplifier.

Conventional Input: Connect amplifier to either the Woofer IN or Tweeter IN.

Bi-amp Input: Connect woofer amp to terminals labeled Woofer IN, connect tweeter amp to terminals labeled Tweeter IN.



The area outlined in green indicates the terminals used for **Tweeter Level Adjustment** +3db, +0db, -3db
Place jumper on desired db level.

The area outlined in blue indicates the jumpers used for phase adjustment.

Normal Phase: Place both jumpers on **Normal** terminals.

Reverse Phase: Place both jumpers on **Reverse** terminals.

!!!!Do not place jumpers on one Normal and one Reverse terminal at same time, this will cause a short circuit!!!!

The area outlined in red indicates the jumpers used for **Conventional** or **Bi-amp** input selection.

Conventional Input: Use two jumpers.

Bi-amp Input: Remove both jumpers.

DDAUDIO.COM • 1141 NW 1st St, Oklahoma City, OK 73106 • (405) 239-2800