

# AMPLIFIER

**SPL Monster**

## MP 15K UNLIMITED 15000 W



### Power Supply

Power supply voltage:	8÷18 VDC
Idling current:	8 A
Idling current when off:	3 mA

### Amplifier stage

Distortion THD (A weighted, 100 Hz @ 4Ω):	0.15 %
Bandwidth (-3 dB):	10 ÷ 500 Hz
S/N Ratio (A weighted @ 1 V):	69 dB
Damping factor (100 Hz @ 4Ω):	> 950
Pre-In sensitivity:	0.3÷7V
Pre-In impedance:	15 k Ω

### OUTPUT POWER (RMS) @ 12 VDC, THD 1%:

Load Impedance	Stereo	Bridge
4Ω	1000 W x 2	4000 W x 1
2Ω	2000 W x 2	6000 W x 1
1Ω	3000 W x 2	8000 W x 1

### OUTPUT POWER (RMS) @ 14,4 VDC, THD 1%:

Load Impedance	Stereo	Bridge
4Ω	1500 W x 2	5600 W x 1
2Ω	2800 W x 2	9000 W x 1
1Ω	4500 W x 2	12000 W x 1

### OUTPUT POWER (RMS) @ 16 VDC, THD 1%:

Load Impedance	Stereo	Bridge
4Ω	1800 W x 2	6800 W x 1
2Ω	3400 W x 2	11000 W x 1
1Ω	5500 W x 2	15000 W x 1

### OUTPUT POWER (RMS) @ 18 VDC, THD 1%:

Load Impedance	Stereo	Bridge
4Ω	2300 W x 2	8800 W x 1
2Ω	4400 W x 2	12000 W x 1
1Ω	6100 W x 2	15500 W x 1

The Hertz MP 15K UNLIMITED, with its 15.000 W of destructive power and the enormity of this project is intimidating to your eyes and for the sheer energy it generates!

1. In order to deliver such extraordinarily high power, the power supply stage features 8 toroidal transformers, 20 - 3300uF 105° Low ESR primary capacitors for a total of 66000uF; 32 160A TO247 Mosfets and 10 - 820uF secondary capacitors capable of 200 V.
2. The output stage, settable in bridged or stereo mode, features 20 -190A/360V impulsive current Mosfets: robust power and thermal dissipation without compromise.
3. **Direct Current®**: 4 - 1/0 AWG cables (2 for the positive and 2 for the negative) terminated with ring terminals on the supply side and secured to the amplifier with 4 - 2,5 mm thick copper buss bars connected directly to the printed circuit board, providing the ability to transfer power between battery and amplifier with very low contact resistance.
4. **Hertz SPL Stack System®** stacks multiple amplifiers thanks to the 6 supplied 2 mm robust iron Brackets. The threaded mounting points on the heatsink let your SPL power plant to grow without limits.
5. An input circuit specifically designed for SPL competitions featuring selectable output mode settings that extend the range of the mobile assemblies the Hertz M 12 UNLIMITED and M 15 UNLIMITED subwoofers offer, letting your system be adaptable to any competition category.

### Filters & Controls

<b>Lo-Pass:</b>	OFF / Lo-pass: 40 ÷ 150 Hz @ 24 dB/Oct.
<b>Subsonic:</b>	OFF / Hi-pass: 10 ÷ 50 Hz @ 24 dB/Oct.
<b>Output Mode:</b>	Stereo By-Pass / Bridge / L+R Mix
<b>Chain Mode:</b>	Master / Slave

### Measure

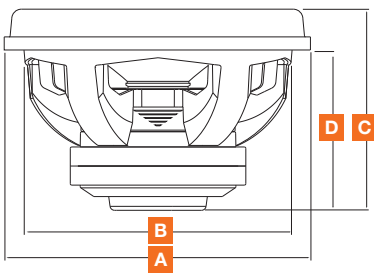
<b>Max size (mm/inches):</b>	323 x 830 x 68,5 12 <sup>3/4</sup> x 32 <sup>11/16</sup> x 2 <sup>3/4</sup>
<b>Weight (kg/lb):</b>	25,5/56.2

# SUB WOOFER

*SPL Monster*

## MM 12 UNLIMITED

### Motor Group



A	324 mm (12" 3/4)
B	280 mm (11")
C	239 mm (9" 7/16)
D	192 mm (7" 9/16)



#### Technical Specifications

Component	MOTOR GROUP SPL SUB 300mm	
Size	mm (inch)	300 (12")
Outer Ø	mm (inch)	324 (12" 3/4)
Mounting Ø	mm (inch)	280 (11")
Total depth*	mm (inch)	239 (9" 7/16)
Mount. depth	mm (inch)	192 (7" 9/16)
Total Driver Displacement	l (cu.ft)	7,1 (0,25)
Magnet Size	mm (inch)	2x230x25 (2x9" 1/16 x1")
Weight of one component*	kg (lb)	19,8 (43,7)
Magnet	Double magnet, High Density flux ferrite	

\*Including Mobile Group

1. High thermal dissipation and magnetic permeability plates; provides constant, even flux.
2. Large double magnet; for perfect control under high power, very high excursion conditions for top SPL performance.
3. Back plate vent holes; for optimal thermal dissipation.
4. Internally reinforced basket; protected from abrasions with high resistance paint.
5. Basket and motor are coupled and damped through special epoxy glue.

# SUB WOOFER

**SPL Monster**

**MG 12**

**8000 W**

**Mobile Group**

**Electro-Acoustic Parameters**

		<b>MG 12 2x1.5</b> 1,5+1,5 VC	<b>MG 12 2x1</b> 1,0+1,0 VC
<b>D</b>	mm	262	
<b>Xmax</b>	mm	18,5	18,5
<b>Re*</b>	Ω	3,3	2,2
<b>Fs</b>	Hz	44	42
<b>Le</b>	mH@1kHz	-	-
<b>Le</b>	mH@10kHz	-	-
<b>Vas</b>	l	14,5	17,3
<b>Mms</b>	g	370,1	378,8
<b>Cms</b>	mm/N	0,035	0,040
<b>BL</b>	Tm	25,2	21,8
<b>Qts</b>		0,49	0,43
<b>Qes</b>		0,53	0,45
<b>Qms</b>		6,39	7,48
<b>Spl</b>	dB	90,5	92,0

\* Coils in Series

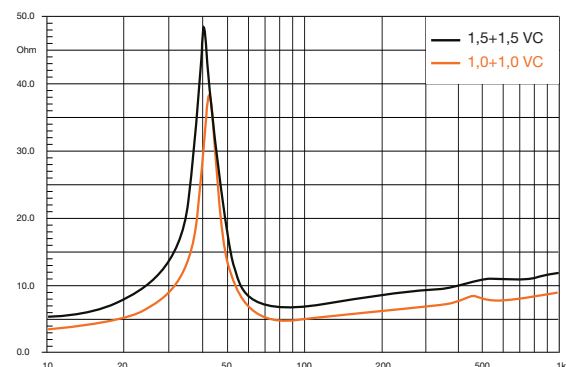


**Technical Specifications**

		<b>1,5+1,5 VC</b>	<b>1,0+1,0 VC</b>
<b>Component</b>		SPL DUAL COIL MOBILE GROUP SUBWOOFER	
<b>Size</b>	mm (inch)	300 (12")	
<b>Power handling</b>	W peak	8000	
	W continuous	2000	
<b>Impedance</b>	Ω	1,5 + 1,5	1,0 + 1,0
<b>Frequency response</b>	Hz	32÷1000	
<b>Voice Coil Diameter</b>	mm (inch)	75 (2" 15/16)	
<b>Cone</b>		Water-Repellent, Pressed Paper Cone	
<b>X-mech*</b>	mm (inch)	33,5 (1" 5/16)	

\*X-mech maximum mechanical excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

1. Aluminium voice coil wound on four-layer former; for unheard-of thermal and mechanical capacity.
2. Back Vented Spider support; for perfect symmetry under high excursion while providing increased thermal dissipation.
3. DSS: Double Symmetrical Spider system.
4. RMA: easily Removable Moving Assembly. Separately sold from Motor Group, for maximum versatility.
5. Connections ending with high current cables (8 AWG).
6. Tinned lead wires are integrated into the spider; for maximum reliability and conductivity.
7. Wide-wave, resin-bonded fibre spider; for consistent parameters and mechanical consistency.
8. High density foam surround; for linear movement even under extreme excursion.
9. Water-repellent, pressed paper cone.

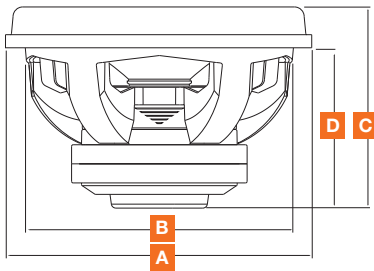


# SUB WOOFER

*SPL Monster*

## MM 15 UNLIMITED

### Motor Group



A	399 mm (15" 11/16)
B	350 mm (13" 3/4)
C	256 mm (10" 1/16)
D	209 mm (8" 1/4)



#### Technical Specifications

Component		MOTOR GROUP SPL SUB 380mm
Size	mm (inch)	380 (15")
Outer Ø	mm (inch)	399 (15" 11/16)
Mounting Ø	mm (inch)	350 (13" 3/4)
Total depth*	mm (inch)	256 (10" 1/16)
Mount. depth	mm (inch)	209 (8" 1/4)
Total Driver Displacement	l (cu.ft)	9,2 (0,32)
Magnet Size	mm (inch)	2x230x25 (2x9" 1/16x1")
Weight of one component*	kg (lb)	22,90 (50,5)
Magnet		Double magnet, High Density flux ferrite

\*Including Mobile Group

1. High thermal dissipation and magnetic permeability plates; provides constant, even flux.
2. Large double magnet; for perfect control under high power, very high excursion conditions for top SPL performance.
3. Back plate vent holes; for optimal thermal dissipation.
4. Internally reinforced basket; protected from abrasions with high resistance paint. Basket and motor are coupled and damped through special epoxy glue.

# SUB WOOFER

*SPL Monster*

## Mobile Group

**MG 15**

**8000 W**

### Electro-Acoustic Parameters

		MG 15 2x1.5 1,5+1,5 VC	MG 15 2x1 1,0+1,0 VC
<b>D</b>	mm	320	
<b>Xmax</b>	mm	18,5	18,5
<b>Re*</b>	Ω	3,3	2,2
<b>Fs</b>	Hz	41	40
<b>Le</b>	mH@1kHz	-	-
<b>Le</b>	mH@10kHz	-	-
<b>Vas</b>	l	31,8	33,0
<b>Mms</b>	g	435,9	454,5
<b>Cms</b>	mm/N	0,035	0,036
<b>BL</b>	Tm	27,3	23,3
<b>Qts</b>		0,46	0,42
<b>Qes</b>		0,50	0,45
<b>Qms</b>		6,04	7,04
<b>Spl</b>	dB	92,5	94,0

\* Coils in Series

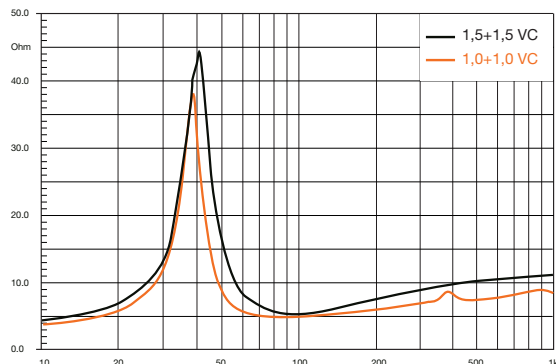


### Technical Specifications

Technical Specifications		1,5+1,5 VC	1,0+1,0 VC
<b>Component</b>		SPL DUAL COIL MOBILE GROUP SUBWOOFER	
<b>Size</b>	mm (inch)	380 (15")	
<b>Power handling</b>	W peak	8000	
	W continuous	2000	
<b>Impedance</b>	Ω	1,5 + 1,5	1,0 + 1,0
<b>Frequency response</b>	Hz	28÷700	
<b>Voice Coil Diameter</b>	mm (inch)	75 (2" 15/16)	
<b>Cone</b>		Water-Repellent, Paper Cone	
<b>X-mech*</b>	mm (inch)	33,5 (1" 5/16)	

\*X-mech maximum mechanical excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

1. Aluminium voice coil wound on four-layer former; for unheard-of thermal and mechanical capacity.
2. Back Vented Spider support; for perfect symmetry under high excursion while providing increased thermal dissipation.
3. DSS: Double Symmetrical Spider system.
4. RMA: easily Removable Moving Assembly. Separately sold from Motor Group, for maximum versatility.
5. Connections ending with high current cables (8 AWG).
6. Tinned lead wires are integrated into the spider; for maximum reliability and conductivity.
7. Wide-wave, resin-bonded fibre spider; for consistent parameters and mechanical consistency.
8. High density foam surround; for linear movement even under extreme excursion.
9. Water-repellent, pressed paper cone.



# COMP SPL Show

**ST 25** 100 W

## Technical Specifications

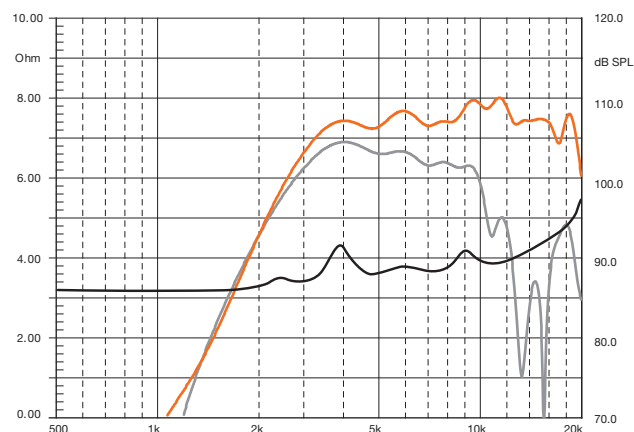
<b>Component</b>	High Efficiency Compression Driver	
<b>Size</b>	mm (inch)	25 (1")
<b>Power Handling</b>	W Peak	100
	Hi-pass filtered 5 kHz @ 12 dB Oct.	
<b>Impedance</b>	$\Omega$	4
<b>Frequency Response</b>	Hz	3k ÷ 20k
<b>Sensitivity</b>	dB/SPL	107
<b>Outer Ø</b>	mm (inch)	57,5 (2" 1/4)
<b>Mounting Ø</b>	mm (inch)	43,5 (1" 11/16)
<b>Total depth</b>	mm (inch)	63 (2" 1/2)
<b>Mount. depth</b>	mm (inch)	37 (1" 7/16)
<b>Weight</b>	kg (lb)	0,52 (1,15)
<b>Voice coil Ø</b>	mm (inch)	25 (1")
<b>Magnet</b>	Neodymium REN®	
<b>Dome/Cone</b>	Aluminium	



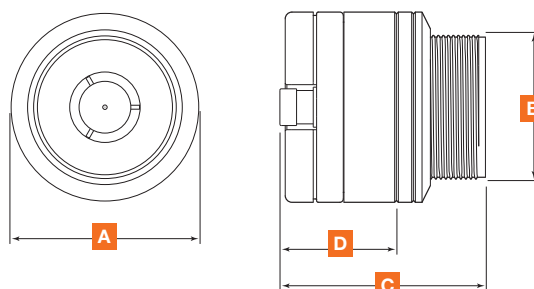
1. High thermal dissipation and magnetic permeability plates; provide constant, even flux.
2. Neodymium REN® magnet, for top SPL performance.
3. CCAR (Copper Clad Aluminium Ribbon) voice coil; for unheard-of thermal and mechanical capability.
4. Extralight aluminium membrane.
5. Anodized aluminium body; for maximum damping and vibration rejection.
6. High current, tin-plated terminals.
7. High efficiency compression loading horn.

## Electro-Acoustic Parameters

<b>D</b>	mm	25 (1")
<b>Xmax</b>	mm	-
<b>Re</b>	$\Omega$	2,9
<b>Fs</b>	Hz	3400
<b>Le</b>	mH @ 1 kHz	-
<b>Le</b>	mH @ 10 kHz	-
<b>Vas</b>	l	-
<b>Mms</b>	g	-
<b>Cms</b>	mm/N	-
<b>BL</b>	T-m	-
<b>Qts</b>	-	-
<b>Qes</b>	-	-
<b>Qms</b>	-	-
<b>Spl</b>	dB	107



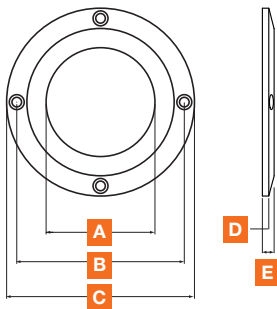
<b>A</b>	57,5 mm (2" 1/4)
<b>B</b>	43,5 mm (1" 11/16)
<b>C</b>	63 mm (2" 1/2)
<b>D</b>	37 mm (1" 7/16)



**SPL/Show**  
**ACCESSORIES**  
**AFR 25**



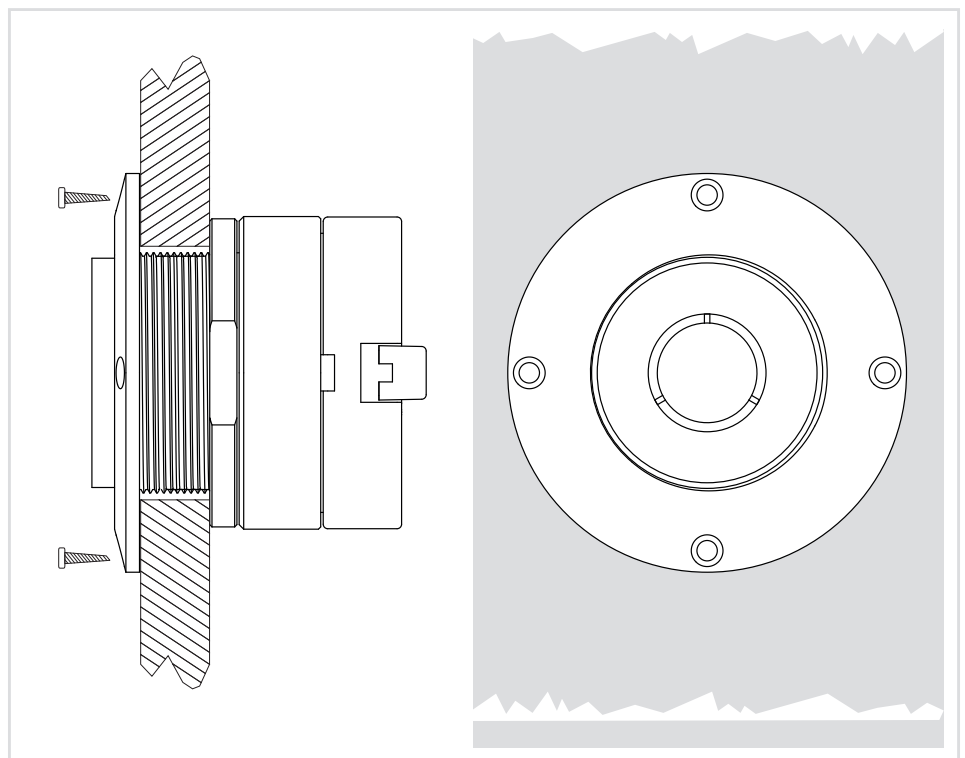
**AFR 25**



A	42,6 mm (1"11/16)
B	67,0 mm (2"5/8)
C	76,0 mm (3")
D	3,0 mm (1/8")
E	5,5 mm (3/16")

1. Supplied mounting ring for flush mount installations
2. Anodized aluminium; for maximum damping.

**AFR USE**



# COMP *SPL Show*

## ST 35 100 W

### Technical Specifications

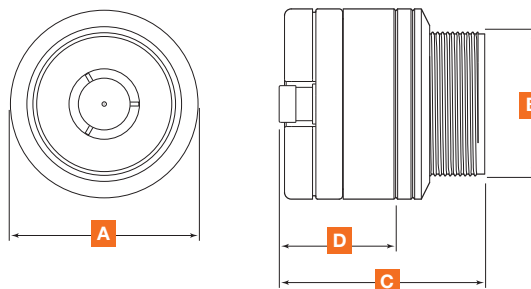
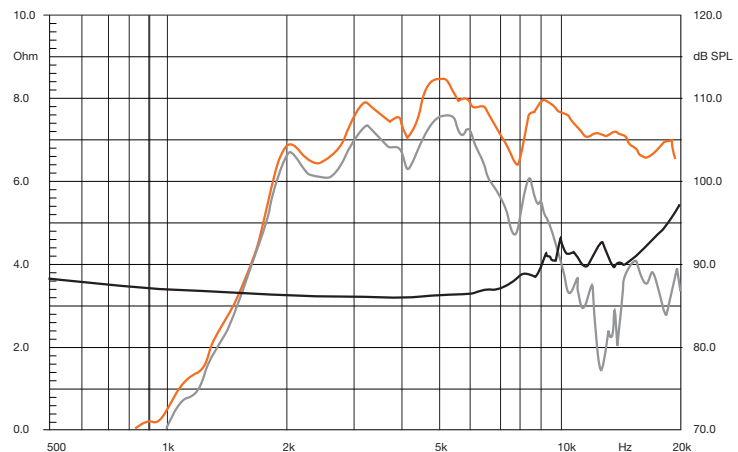
<b>Component</b>	High Efficiency Compression Driver	
<b>Size</b>	mm (inch)	35 (1" 3/8)
<b>Power Handling</b>	W Peak	100
	Hi-pass filtered 4,5 kHz @ 12 dB Oct.	
<b>Impedance</b>	$\Omega$	4
<b>Freq. Response</b>	Hz	2,5k ÷ 20k
<b>Sensitivity</b>	dB/SPL	109
<b>Outer Ø</b>	mm (inch)	69,5 (2" 3/4)
<b>Mounting Ø</b>	mm (inch)	51,5 (2")
<b>Total depth</b>	mm (inch)	73 (2" 7/8)
<b>Mount. depth</b>	mm (inch)	41,5 (1" 5/8)
<b>Weight</b>	kg (lb)	0,78 (1,72)
<b>Voice coil Ø</b>	mm (inch)	35 (1" 3/8)
<b>Magnet</b>	Neodymium REN®	
<b>Dome/Cone</b>	Aluminium	



1. High thermal dissipation and magnetic permeability plates; provide constant, even flux.
2. Neodymium REN® magnet, for top SPL performance.
3. CCAR (Copper Clad Aluminium Ribbon) voice coil; for unheard-of thermal and mechanical capability.
4. Extralight aluminium membrane.
5. Anodized aluminium body; for maximum damping and vibration rejection.
6. High current, tin-plated terminals.
7. High efficiency compression loading horn.

### Electro-Acoustic Parameters

<b>D</b>	mm	35
<b>Xmax</b>	mm	-
<b>Re</b>	$\Omega$	2,9
<b>Fs</b>	Hz	3200
<b>Le</b>	mH @ 1 kHz	-
<b>Le</b>	mH @ 10 kHz	-
<b>Vas</b>	l	-
<b>Mms</b>	g	-
<b>Cms</b>	mm/N	-
<b>BL</b>	T-m	-
<b>Qts</b>	-	-
<b>Qes</b>	-	-
<b>Qms</b>	-	-
<b>Spl</b>	dB	109



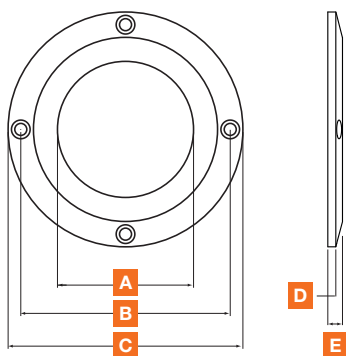
<b>A</b>	69,5 mm (2" 3/4)
<b>B</b>	51,5 mm (2")
<b>C</b>	73 mm (2" 7/8)
<b>D</b>	41,5 mm (1" 5/8)



**SPL Show**  
**ACCESSORIES**  
**AFR 35**



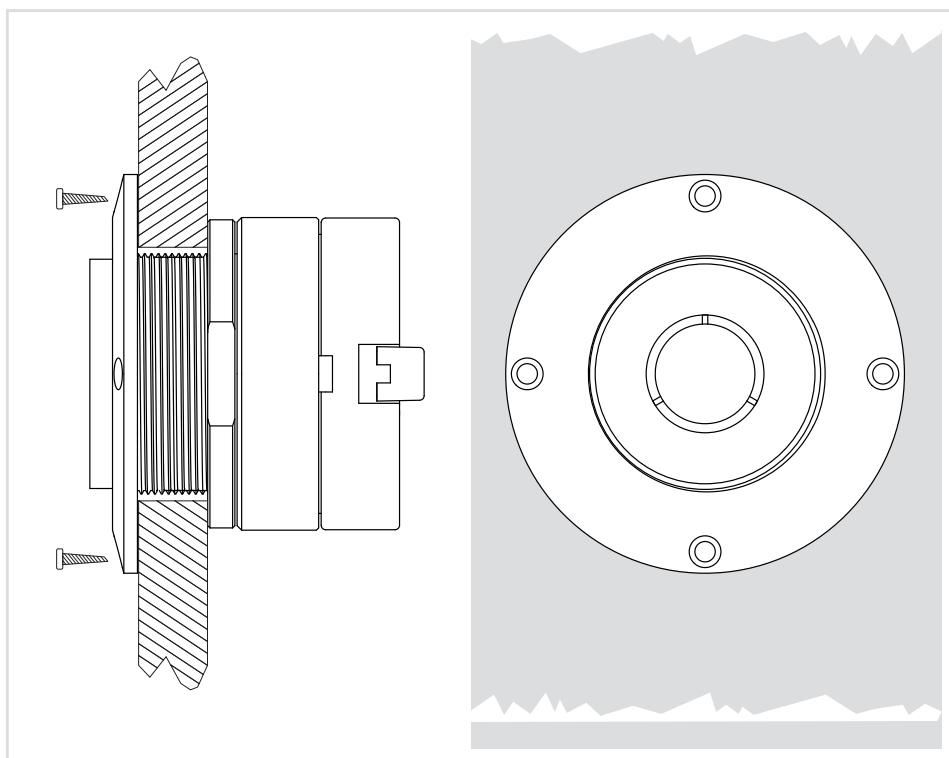
**AFR 35**



A	51,0 mm (2")
B	78,5 mm (3" 1/16)
C	88,0 mm (3" 7/16)
D	3,0 mm (1/8")
E	5,5 mm (3/16")

1. Supplied mounting ring for flush mount installations
2. Anodized aluminium; for maximum damping.

**AFR USE**



# COMP *SPL Show*

**ST 44** **100 W**

## Technical Specifications

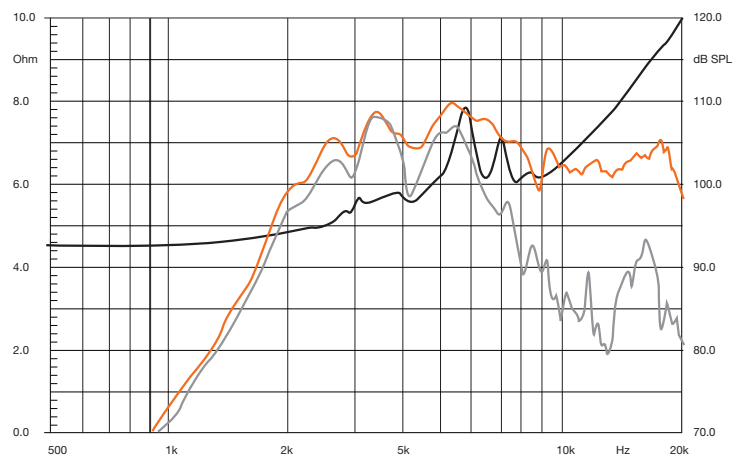
<b>Component</b>	High Efficiency Compression Driver	
<b>Size</b>	mm (inch)	44 (1" 3/4)
<b>Power Handling</b>	W Peak	100
	Hi-pass filtered 4,5 kHz @ 12 dB Oct.	
<b>Impedance</b>	$\Omega$	4
<b>Freq. Response</b>	Hz	2,5k ÷ 20k
<b>Sensitivity</b>	dB/SPL	109
<b>Outer Ø</b>	mm (inch)	115 (4" 1/2)
<b>Mounting Ø</b>	mm (inch)	90 (3" 9/16)
<b>Total depth</b>	mm (inch)	74 (2" 15/16)
<b>Mount. depth</b>	mm (inch)	64,5 (2" 9/16)
<b>Weight</b>	kg (lb)	1,56 (3,44)
<b>Voice coil Ø</b>	mm (inch)	44 (1" 3/4)
<b>Magnet</b>	Single magnet, High density flux ferrite	
<b>Dome/Cone</b>	Aluminium	

## Electro-Acoustic Parameters

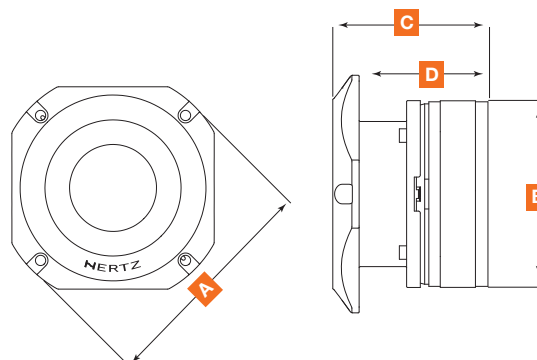
<b>D</b>	mm	44
<b>Xmax</b>	mm	-
<b>Re</b>	$\Omega$	3,9
<b>Fs</b>	Hz	1290
<b>Le</b>	mH @ 1 kHz	-
<b>Le</b>	mH @ 10 kHz	-
<b>Vas</b>	l	-
<b>Mms</b>	g	-
<b>Cms</b>	mm/N	-
<b>BL</b>	T-m	-
<b>Qts</b>	-	-
<b>Qes</b>	-	-
<b>Qms</b>	-	-
<b>Spl</b>	dB	109



1. High thermal dissipation and magnetic permeability plates; provide constant, even flux.
2. High density flux ferrite magnet, for top SPL performance.
3. CCAR (Copper Clad Aluminium Ribbon) voice coil; for unheard-of thermal and mechanical capability.
4. Extralight aluminium membrane.
5. Anodized aluminium body; for maximum damping and vibration rejection.
6. High current, tin-plated terminals.
7. High efficiency compression loading horn.



<b>A</b>	115 mm (4" 1/2)
<b>B</b>	90 mm (3" 9/16)
<b>C</b>	74 mm (2" 15/16)
<b>D</b>	64,5 mm (2" 9/16)



# COMP SPL Show

## SV 165 300 W

### Technical Specifications

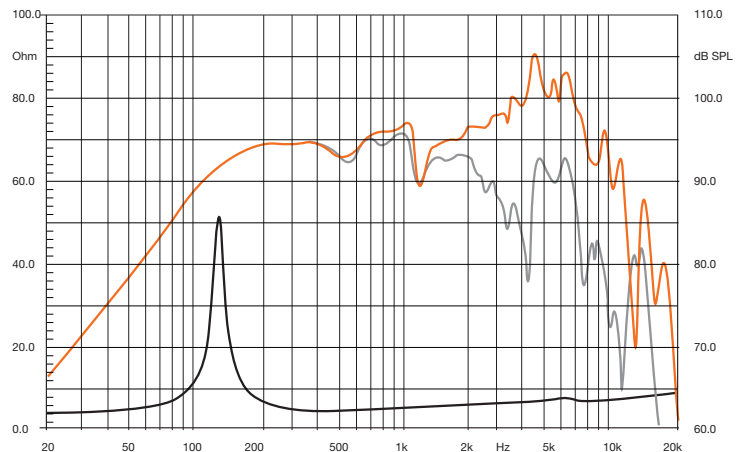
Component	SPL Midrange	
<b>Size</b>	mm (inch)	165mm (6" 1/2)
<b>Power Handling</b>	W Peak	300
	W Continuous	150
<b>Impedance</b>	$\Omega$	4
<b>Freq. Response</b>	Hz	120÷8k
<b>Sensitivity</b>	dB/SPL	95
<b>Outer <math>\varnothing</math></b>	mm (inch)	168 (6" 5/8)
<b>Mounting <math>\varnothing</math></b>	mm (inch)	145 (5" 11/16)
<b>Total depth</b>	mm (inch)	73 (2" 7/8)
<b>Mount. depth</b>	mm (inch)	66 (2" 5/8)
<b>Total driver displacement</b>	l (cu.ft)	0,5 (0,018)
<b>Magnet size</b>	mm (inch)	110 (4" 5/16)
<b>Weight</b>	kg (lb)	1,81 (3,99)
<b>Voice Coil <math>\varnothing</math></b>	mm (inch)	38 (1" 1/2)
<b>Magnet</b>	Single magnet, High density flux ferrite	
<b>Cone</b>	Ultra Light Pressed Paper Cone	



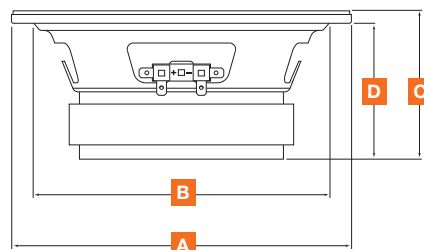
1. High thermal dissipation and magnetic permeability plates; provides constant, even flux.
2. Large magnet; for perfect control under high power, for top SPL performance.
3. Aluminium voice coil wound on two-layer former; for unheard-of thermal and mechanical capability.
4. Back plate venting hole; for optimal thermal dissipation.
5. High current, tin-plated terminals.
6. Damped fabric surround; for maximum lightness and extreme SPL.
7. Water-repellent, pressed paper cone.

### Electro-Acoustic Parameters

<b>D</b>	mm	128
<b>Xmax</b>	mm	1,3
<b>Re</b>	$\Omega$	3,2
<b>Fs</b>	Hz	125
<b>Le</b>	mH @ 1 kHz	0,16
<b>Le</b>	mH @ 10 kHz	0,04
<b>Vas</b>	l	3,7
<b>Mms</b>	g	10,3
<b>Cms</b>	mm/N	0,16
<b>BL</b>	T-m	6,70
<b>Qts</b>		0,53
<b>Qes</b>		0,57
<b>Qms</b>		7,80
<b>Spl</b>	dB	95



<b>A</b>	168 mm (6" 5/8)
<b>B</b>	145 mm (5" 11/16)
<b>C</b>	73 mm (2" 7/8)
<b>D</b>	66 mm (2" 5/8)



# COMP SPL Show

**SV 200 400 W**

### Technical Specifications

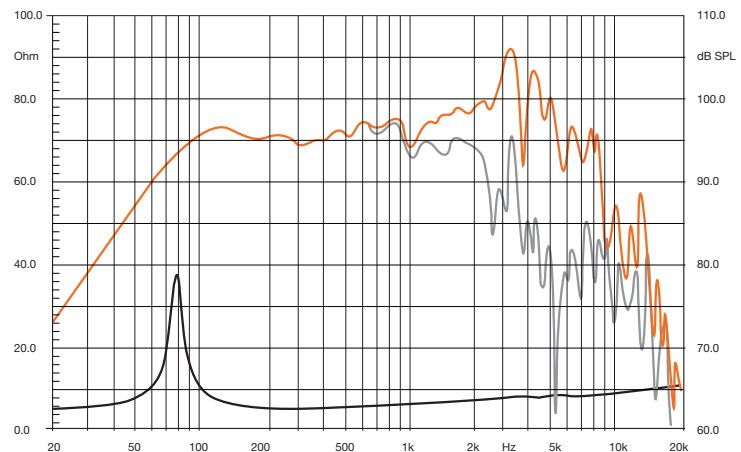
Component	SPL Midrange	
Size	mm (inch)	200 mm (8")
Power Handling	W Peak	400
	W Continuous	200
Impedance	$\Omega$	4
Freq. Response	Hz	100÷7k
Sensitivity	dB/SPL	96
Outer $\varnothing$	mm (inch)	208 (8" <sup>3</sup> / <sub>16</sub> )
Mounting $\varnothing$	mm (inch)	179 (7" <sup>1</sup> / <sub>16</sub> )
Total depth	mm (inch)	95 (3" <sup>3</sup> / <sub>4</sub> )
Mount. depth	mm (inch)	89 (3" <sup>1</sup> / <sub>2</sub> )
Total driver displacement	l (cu.ft)	0,8 (0,028)
Magnet size	mm (inch)	120 (4" <sup>3</sup> / <sub>4</sub> )
Weight	kg (lb)	2,28 (5,03)
Voice Coil $\varnothing$	mm (inch)	50 (1" <sup>5</sup> / <sub>16</sub> )
Magnet	Single magnet, High density flux ferrite	
Cone	Ultra Light Pressed Paper Cone	



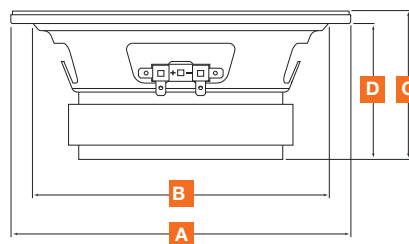
1. High thermal dissipation and magnetic permeability plates; provides constant, even flux.
2. Large magnet; for perfect control under high power, for top SPL performance.
3. Aluminium voice coil wound on two-layer former; for unheard-of thermal and mechanical capability.
4. Back plate venting hole; for optimal thermal dissipation.
5. High current, tin-plated terminals.
6. Damped fabric surround; for maximum lightness and extreme SPL.
7. Water-repellent, pressed paper cone.

### Electro-Acoustic Parameters

D	mm	168
Xmax	mm	1,5
Re	$\Omega$	3,3
Fs	Hz	80
Le	mH @ 1 kHz	0,18
Le	mH @ 10 kHz	0,05
Vas	l	14,5
Mms	g	19,5
Cms	mm/N	0,21
BL	T-m	6,60
Qts		0,67
Qes		0,73
Qms		7,60
Spl	dB	96



A	208 mm (8" <sup>3</sup> / <sub>16</sub> )
B	179 mm (7" <sup>1</sup> / <sub>16</sub> )
C	95 mm (3" <sup>3</sup> / <sub>4</sub> )
D	89 mm (3" <sup>1</sup> / <sub>2</sub> )



# COMP SPL Show

## SV 200L 500 W

### Technical Specifications

Component	SPL Woofer	
Size	mm (inch)	200 mm (8")
Power Handling	W Peak	500
	W Continuous	250
Impedance	$\Omega$	4
Freq. Response	Hz	45÷4,5k
Sensitivity	dB/SPL	94,5
Outer $\varnothing$	mm (inch)	209 (8" 1/4)
Mounting $\varnothing$	mm (inch)	178 (7")
Total depth	mm (inch)	91 (3" 9/16)
Mount. depth	mm (inch)	82 (3" 1/4)
Total driver displacement	l (cu.ft)	0,9 (0,032)
Magnet size	mm (inch)	120 (4" 3/4)
Weight	kg (lb)	2,32 (5,11)
Voice Coil $\varnothing$	mm (inch)	50 (1" 5/16)
Magnet	Single magnet, High density flux ferrite	
Cone	Ultra Light, Non Pressed Paper Cone	

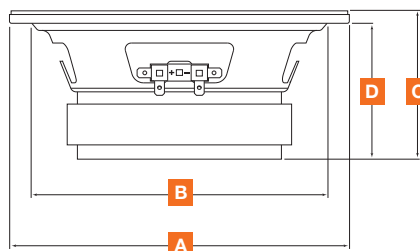
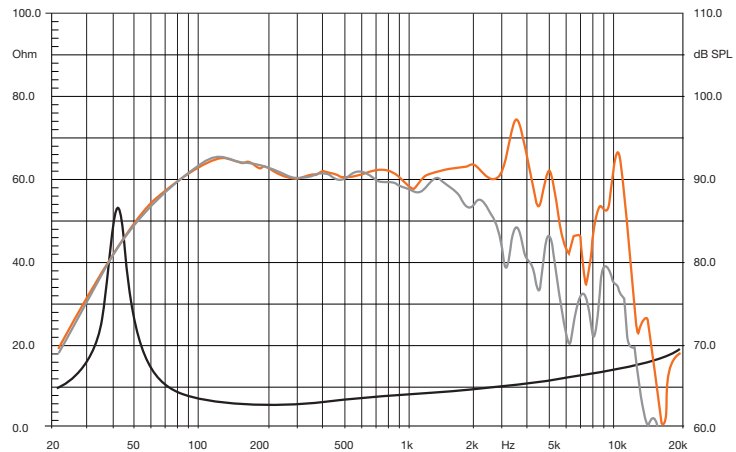
### Electro-Acoustic Parameters

D	mm	168
Xmax	mm	4,5
Re	$\Omega$	3,0
Fs	Hz	44
Le	mH @ 1 kHz	0,75
Le	mH @ 10 kHz	0,08
Vas	l	29,0
Mms	g	31,5
Cms	mm/N	0,42
BL	T-m	8,60
Qts		0,33
Qes		0,36
Qms		3,32
Spl	dB	94,5

A	209 mm (8" 1/4)
B	178 mm (7")
C	91 mm (3" 9/16)
D	82 mm (3" 1/4)



1. Soft iron plates for high heat dissipation, part of the symmetrical magnetic flux motor.
2. Over-sized magnet; provides outstanding energy for maximum control.
3. Pure copper voice coil wound on a KSV former; for excellent thermal and mechanical capability.
4. Vented bottom plate; improves linearity and thermal dissipation.
5. Pulp cone mixed with cotton fibre; for powerful low frequency response.
5. V-Cone®; for the best off-axis dispersion and mid frequency detail.
7. Lossless Polymer Rubber Surround; for long throw and maximum damping.



# COMP SPL Show

**SV 250** **500 W**

## Technical Specifications

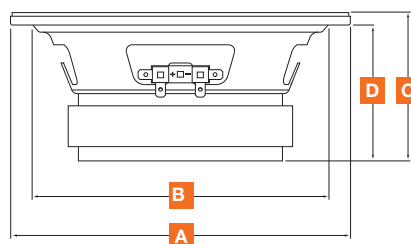
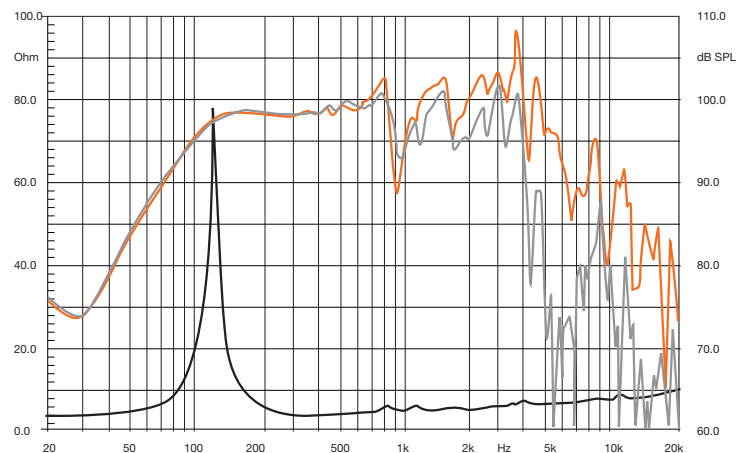
Component	SPL Midrange	
<b>Size</b>	mm (inch)	250 mm (10")
<b>Power Handling</b>	W Peak	500
	W Continuous	250
<b>Impedance</b>	Ω	4
<b>Freq. Response</b>	Hz	80÷5k
<b>Sensitivity</b>	dB/SPL	99
<b>Outer Ø</b>	mm (inch)	256 (10 <sup>1</sup> / <sub>16</sub> )
<b>Mounting Ø</b>	mm (inch)	232 (9 <sup>1</sup> / <sub>8</sub> )
<b>Total depth</b>	mm (inch)	86 (3 <sup>3</sup> / <sub>8</sub> )
<b>Mount. depth</b>	mm (inch)	79 (3 <sup>1</sup> / <sub>8</sub> )
<b>Total driver displacement</b>	l (cu.ft)	0,7 (0,025)
<b>Magnet size</b>	mm (inch)	160 (6 <sup>3</sup> / <sub>16</sub> )
<b>Weight</b>	kg (lb)	4,32 (9,52)
<b>Voice Coil Ø</b>	mm (inch)	50 (1 <sup>7</sup> / <sub>16</sub> )
<b>Magnet</b>	Single magnet, High density flux ferrite	
<b>Cone</b>	Ultra Light Pressed Paper Cone	



1. Soft iron plates for high heat dissipation, part of the symmetrical magnetic flux motor.
2. Over-sized magnet; provides outstanding energy for maximum control.
3. Pure copper voice coil wound on a KSV former; for excellent thermal and mechanical capability.
4. Vented bottom plate; improves linearity and thermal dissipation.
5. Pulp cone mixed with cotton fibre; for powerful low frequency response.
6. V-Cone®; for the best off-axis dispersion and mid frequency detail.
7. Lossless Polymer Rubber Surround; for long throw and maximum damping.
8. Compact size for spectacular multiple woofer installations.

## Electro-Acoustic Parameters

<b>D</b>	mm	209
<b>Xmax</b>	mm	3,0
<b>Re</b>	Ω	3,4
<b>Fs</b>	Hz	74
<b>Le</b>	mH @ 1 kHz	0,08
<b>Le</b>	mH @ 10 kHz	0,07
<b>Vas</b>	l	26,0
<b>Mms</b>	g	30,0
<b>Cms</b>	mm/N	0,16
<b>BL</b>	T-m	10,2
<b>Qts</b>		0,42
<b>Qes</b>		0,44
<b>Qms</b>		9,78
<b>Spl</b>	dB	99



<b>A</b>	256 mm (10 <sup>1</sup> / <sub>16</sub> )
<b>B</b>	232 mm (9 <sup>1</sup> / <sub>8</sub> )
<b>C</b>	86 mm (3 <sup>3</sup> / <sub>8</sub> )
<b>D</b>	79 mm (3 <sup>1</sup> / <sub>8</sub> )

# SUB WOOFER

**SPL Show**

## SX 250D 2400 W

### Technical Specifications

<b>Component</b>	SPL Dual Coil Subwoofer	
<b>Size</b>	mm (inch)	250 mm (10")
<b>Power Handling</b>	W Peak	2400
	W Continuous	600
<b>Impedance</b>	$\Omega$	2,0 + 2,0
<b>Freq. Response</b>	Hz	34÷800
<b>Sensitivity</b>	dB/SPL	90,5
<b>Outer Ø</b>	mm (inch)	269 (10" 9/16)
<b>Mounting Ø</b>	mm (inch)	232 (9" 1/8)
<b>Total depth</b>	mm (inch)	187 (7" 3/8)
<b>Mount. depth</b>	mm (inch)	160 (6" 5/16)
<b>Total driver displacement</b>	l (cu.ft)	2 (0,071)
<b>Magnet size</b>	mm (inch)	180 (7" 1/16)
<b>Weight</b>	kg (lb)	11,6 (25,57)
<b>Voice Coil Ø</b>	mm (inch)	65 (2" 9/16)
<b>Magnet</b>	Double magnet, High density flux ferrite	
<b>Cone</b>	Pressed Paper Cone	
<b>X-mech*</b>	mm (inch)	23 (7/8")

\*X-mech maximum mechanical excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

### Electro-Acoustic Parameters

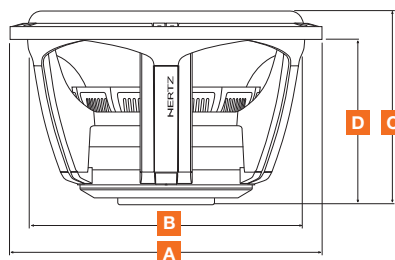
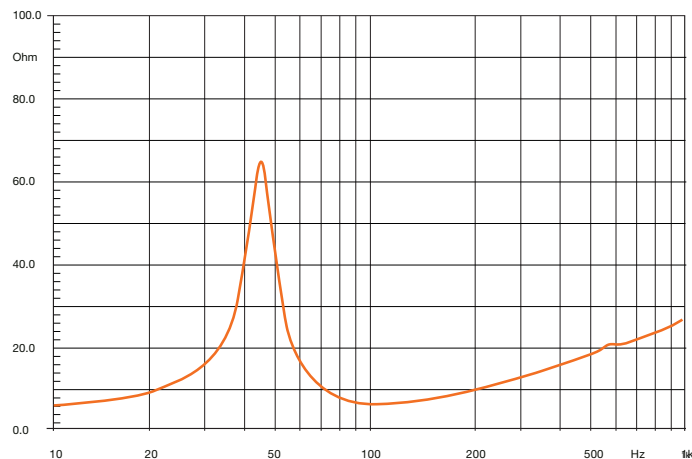
<b>D</b>	mm	210
<b>Xmax</b>	mm	14
<b>Re*</b>	$\Omega$	4,0
<b>Fs</b>	Hz	51
<b>Le</b>	mH @ 1 kHz	-
<b>Le</b>	mH @ 10 kHz	-
<b>Vas</b>	l	11,0
<b>Mms</b>	g	147
<b>Cms</b>	mm/N	0,06
<b>BL</b>	T-m	20,8
<b>Qts</b>		0,42
<b>Qes</b>		0,44
<b>Qms</b>		8,00
<b>Spl</b>	dB	90,5

\* Coils in Series

<b>A</b>	269 mm (10" 9/16)
<b>B</b>	232 mm (9" 1/8)
<b>C</b>	187 mm (7" 3/8)
<b>D</b>	160 mm (6" 5/16)



1. High thermal dissipation and magnetic permeability plates; provide constant, even flux.
2. Large double magnet, for perfect control under high power, very high excursion conditions for high SPL performance.
3. Aluminium voice coil wound on four-layer former; for unheard-of thermal capability.
4. Back plate venting holes, for optimal thermal dissipation.
5. Back Vented Spider Support; for perfect symmetry under high excursion while providing increased thermal dissipation.
6. High current, tin-plated terminals.
7. Tinsel lead wires are integrated in the spider; for maximum reliability and conductivity.
8. Double wide-wave, resin-bonded fibre spider; for consistent parameters and reliability.
9. High density foam surround; for linear movement, even under extreme excursion.
10. Water-repellent, pressed paper cone.
11. Aluminium ring within the pole piece reduces impedance modulation at high excursion.



# SUB WOOFER

**SPL Show**

## SX 300D 3200 W

### Technical Specifications

<b>Component</b>	SPL Dual Coil Subwoofer	
<b>Size</b>	mm (inch)	300 mm (12")
<b>Power Handling</b>	W Peak	3200
	W Continuous	800
<b>Impedance</b>	$\Omega$	2,0 + 2,0
<b>Freq. Response</b>	Hz	28÷700
<b>Sensitivity</b>	dB/SPL	91,0
<b>Outer Ø</b>	mm (inch)	318 (12" 1/2)
<b>Mounting Ø</b>	mm (inch)	284 (11" 3/16)
<b>Total depth</b>	mm (inch)	198 (7" 13/16)
<b>Mount. depth</b>	mm (inch)	170 (6" 11/16)
<b>Total driver displacement</b>	l (cu.ft)	2,9 (0,102)
<b>Magnet size</b>	mm (inch)	180 (7" 1/16)
<b>Weight</b>	kg (lb)	11,80 (26,01)
<b>Voice Coil Ø</b>	mm (inch)	65 (2" 9/16)
<b>Magnet</b>	Double magnet, High density flux ferrite	
<b>Cone</b>	Pressed Paper Cone	
<b>X-mech*</b>	mm (inch)	23 (7/8")

\*X-mech maximum mechanical excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

### Electro-Acoustic Parameters

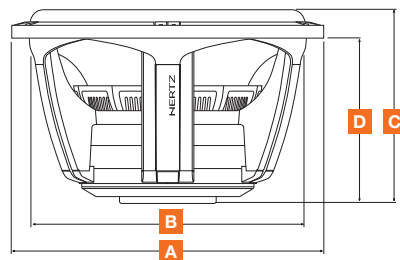
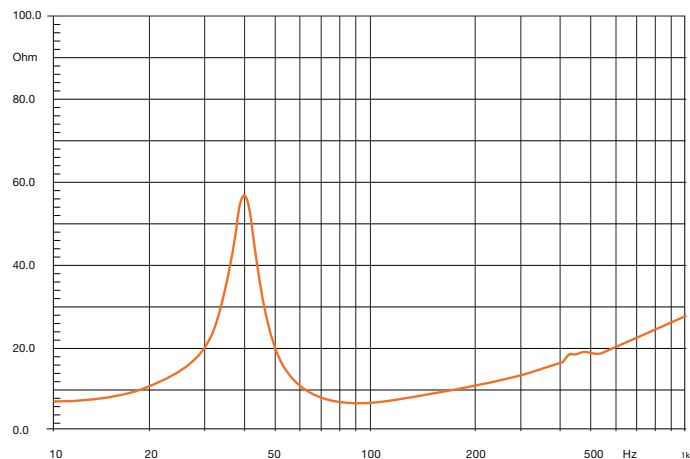
<b>D</b>	mm	253
<b>Xmax</b>	mm	14
<b>Re*</b>	$\Omega$	4,0
<b>Fs</b>	Hz	46
<b>Le</b>	mH @ 1 kHz	-
<b>Le</b>	mH @ 10 kHz	-
<b>Vas</b>	l	20,0
<b>Mms</b>	g	202
<b>Cms</b>	mm/N	0,06
<b>BL</b>	T-m	21,6
<b>Qts</b>		0,48
<b>Qes</b>		0,51
<b>Qms</b>		8,20
<b>Spl</b>	dB	91,0

\* Coils in Series

<b>A</b>	318 mm (12" 1/2)
<b>B</b>	284 mm (11" 3/16)
<b>C</b>	198 mm (7" 13/16)
<b>D</b>	170 mm (6" 11/16)



1. High thermal dissipation and magnetic permeability plates; provide constant, even flux.
2. Large double magnet, for perfect control under high power, very high excursion conditions for high SPL performance.
3. Aluminium voice coil wound on four-layer former; for unheard-of thermal capability.
4. Back plate venting holes, for optimal thermal dissipation.
5. Back Vented Spider Support; for perfect symmetry under high excursion while providing increased thermal dissipation.
6. High current, tin-plated terminals.
7. Tinsel lead wires are integrated in the spider; for maximum reliability and conductivity.
8. Double wide-wave, resin-bonded fibre spider; for consistent parameters and reliability.
9. High density foam surround; for linear movement, even under extreme excursion.
10. Water-repellent, pressed paper cone.
11. Aluminium ring within the pole piece reduces impedance modulation at high excursion.





# SUB WOOFER

**SPL Show**

## SX 380D 4000 W

### Technical Specifications

<b>Component</b>	SPL Dual Coil Subwoofer	
<b>Size</b>	mm (inch)	380 mm (15")
<b>Power Handling</b>	W Peak	4000
	W Continuous	1000
<b>Impedance</b>	$\Omega$	2,0 + 2,0
<b>Freq. Response</b>	Hz	25÷600
<b>Sensitivity</b>	dB/SPL	92,0
<b>Outer <math>\varnothing</math></b>	mm (inch)	391 (15" 3/8)
<b>Mounting <math>\varnothing</math></b>	mm (inch)	351 (13" 13/16)
<b>Total depth</b>	mm (inch)	208 (8" 3/16)
<b>Mount. depth</b>	mm (inch)	181 (7" 1/8)
<b>Total driver displacement</b>	l (cu.ft)	3,5 (0,124)
<b>Magnet size</b>	mm (inch)	180 (7" 1/16)
<b>Weight</b>	kg (lb)	12,20 (26,90)
<b>Voice Coil <math>\varnothing</math></b>	mm (inch)	65 (2" 9/16)
<b>Magnet</b>	Double magnet, High density flux ferrite	
<b>Cone</b>	Pressed Paper Cone	
<b>X-mech*</b>	mm (inch)	23 (7/8")

\*X-mech maximum mechanical excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

### Electro-Acoustic Parameters

<b>D</b>	mm	320
<b>Xmax</b>	mm	14
<b>Re*</b>	$\Omega$	4,0
<b>Fs</b>	Hz	43
<b>Le</b>	mH @ 1 kHz	-
<b>Le</b>	mH @ 10 kHz	-
<b>Vas</b>	l	45,0
<b>Mms</b>	g	274
<b>Cms</b>	mm/N	0,05
<b>BL</b>	T-m	20,7
<b>Qts</b>		0,67
<b>Qes</b>		0,70
<b>Qms</b>		9,30
<b>Spl</b>	dB	92,0

\* Coils in Series

<b>A</b>	391 mm (15" 3/8)
<b>B</b>	351 mm (13" 13/16)
<b>C</b>	208 mm (8" 3/16)
<b>D</b>	181 mm (7" 1/8)



1. High thermal dissipation and magnetic permeability plates; provide constant, even flux.
2. Large double magnet, for perfect control under high power, very high excursion conditions for high SPL performance.
3. Aluminium voice coil wound on four-layer former; for unheard-of thermal capability.
4. Back plate venting holes, for optimal thermal dissipation.
5. Back Vented Spider Support; for perfect symmetry under high excursion while providing increased thermal dissipation.
6. High current, tin-plated terminals.
7. Tinsel lead wires are integrated in the spider; for maximum reliability and conductivity.
8. Double wide-wave, resin-bonded fibre spider; for consistent parameters and reliability.
9. High density foam surround; for linear movement, even under extreme excursion.
10. Water-repellent, pressed paper cone.
11. Aluminium ring within the pole piece reduces impedance modulation at high excursion.

