FH0651GCXN34 & COAXIAL

- Point source coaxial design
- 200 Watt Max Power
- 80Hz to 20KHz frequency response
- 91 dB 1W@1m sensitivity
- Neodymium magnet structure

200
Max Power (W)

80-20K
Frequency range (Hz)

91dB
Sensitivity (1W@1m)

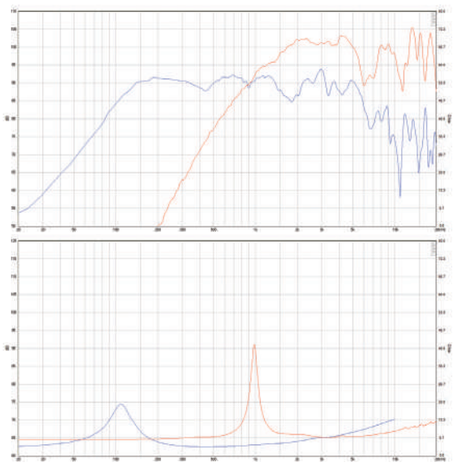
COAXIAL Loudspeakers

Specifications

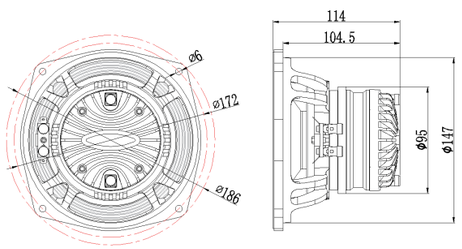
Model	FH0651GCXN34
Nominal diameter(in)	6.5
Nominal impedance(Ohm)	4
Frequency range(Hz)	80-20000
Dispersion angle	90°
Magnet material	Neodymium
LF	
Sensitivity(1W/1m)(dB)	91
Power handling capacity(W)	100
Max power(W)	200
Voice coil diameter(mm/in)	50.8/2.0
Winding material	Aluminum
Flux density(T)	0.95
Former material	Glass Fiber
Cone material	Paper
Surround material	Polycotton
Gap height(mm/in)	8/0.32
Voice coil winding height(mm/in)	15.6/0.61
Chassis material	Aluminium
Fs(Hz)	85
Re(Ohm)	2.6
Qms	3.64
Qes	0.39
Qts	0.35
Vas(L)	8.4
Mms(gr)	14
Cms(mm/N)	0.25
BL(Tm)	7.1
Le(mH)	0.164
Xmax(mm)	3.8
η_0(%)	1.28
Sd(cm2)	153.9
HF	
Sensitivity (lW/1 m)(dB)	98
Power handling capacity(W)	20
Max power(W)	40
Nominal impedance(Ohm)	8
Frequency range (Hz)	2K-20K
Voice coil diameter (mm/in)	34.4/1.35
Winding material	CCAW
Re (Ohm)	6
Flux density(T)	1.45
Diaphragm material	Polyimide
Bolt circle diameter(mm)	172
Baffle cut-out diameter(mm)	147
Overall diameter(mm)	186
Overall depth(mm)	114
Net weight(kg)	2.6

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FH0850HCX25 & COAXIAL

- Point source coaxial design
- 180 Watt Max Power
- 75Hz to 20KHz frequency response
- 92 dB 1W@1m sensitivity
- Ferrite magnet structure

180
Max Power (W)

75-20K
Frequency range (Hz)

92dB
Sensitivity (1W@1m)

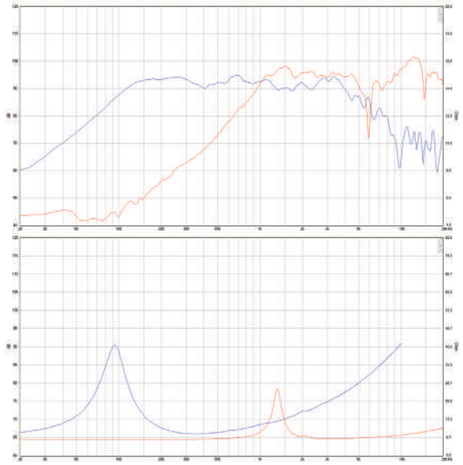
COAXIAL Loudspeakers

Specifications

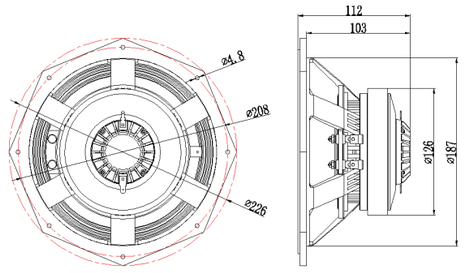
Model	FH0850HCX25
Nominal diameter(in)	8
Nominal impedance(Ohm)	8
Frequency range(Hz)	75-20000
Dispersion angle	80°
Magnet material	Ferrite
LF	
Sensitivity(1W/1m)(dB)	92
Power handling capacity(W)	90
Max power(W)	180
Voice coil diameter(mm/in)	50.8/2.0
Winding material	Copper
Flux density(T)	1
Former material	Glass Fiber
Cone material	Paper
Surround material	Polycotton
Gap height(mm/in)	8/0.32
Voice coil winding height(mm/in)	12.7/0.5
Chassis material	Aluminium
Fs(Hz)	70
Re(Ohm)	6.5
Qms	6.63
Qes	0.44
Qts	0.41
Vas(L)	13.8
Mms(gr)	26
Cms(mm/N)	0.199
BL(Tm)	13.1
Le(mH)	0.59
Xmax(mm)	3.25
η_0(%)	1.04
Sd(cm2)	220.4
HF	
Sensitivity (lW/1 m)(dB)	93
Power handling capacity(W)	10
Max power(W)	20
Nominal impedance(Ohm)	8
Frequency range (Hz)	1.5K-20K
Voice coil diameter (mm/in)	25.4/1.0
Winding material	Copper
Re (Ohm)	6
Flux density(T)	1.25
Diaphragm material	Silk
Bolt circle diameter(mm)	208
Baffle cut-out diameter(mm)	187
Overall diameter(mm)	226
Overall depth(mm)	112
Net weight(kg)	2.9

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FH0438HCXN20 & COAXIAL

- Point source coaxial design
- 120 Watt Max Power
- 85Hz to 20KHz frequency response
- 84 dB 1W@1m sensitivity
- Neodymium magnet structure

120 Max Power (W)

85-20K Frequency range (Hz)

84dB Sensitivity (1W@1m)

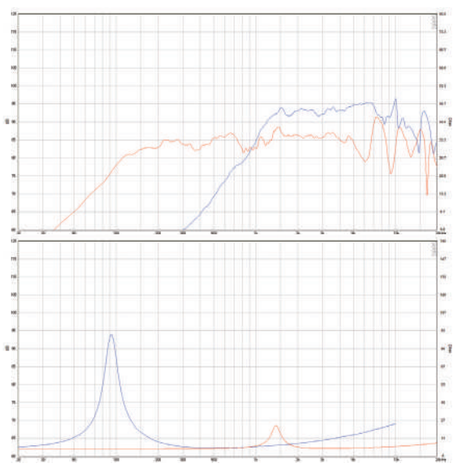
COAXIAL Loudspeakers

Specifications

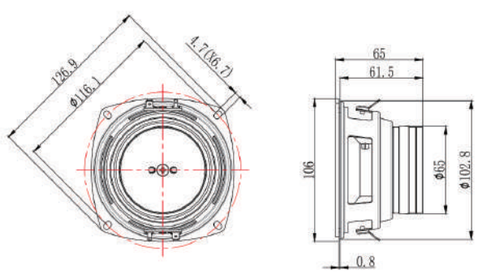
Model	FH0438HCXN20
Nominal diameter(in)	4
Nominal impedance(Ohm)	8
Frequency range(Hz)	85-20000
Dispersion angle	80°
Magnet material	Neodymium
LF	
Sensitivity(1W/1m)(dB)	84
Power handling capacity(W)	60
Max power(W)	120
Voice coil diameter(mm/in)	38.6/1.5
Winding material	CCAW
Flux density(T)	1.0
Former material	Fibreglass
Cone material	Paper
Surround material	Polycotton
Gap height(mm/in)	6/0.24
Voice coil winding height(mm/in)	11.5/0.45
Chassis material	Steel
Fs(Hz)	83.5
Re(Ohm)	5.2
Qms	9.61
Qes	0.34
Qts	0.33
Vas(L)	1.7
Mms(gr)	8.1
Cms(mm/N)	0.446
BL(Tm)	8
Le(mH)	0.289
Xmax(mm)	2.75
η_0(%)	0.28
Sd(cm2)	51.8
HF	
Sensitivity (lW/1 m)(dB)	90
Power handling capacity(W)	5
Max power(W)	10
Nominal impedance(Ohm)	8
Frequency range (Hz)	1.5K-20K
Voice coil diameter (mm/in)	20.4/0.8
Winding material	Copper
Re (Ohm)	5.5
Flux density(T)	1.5
Diaphragm material	Silk
Bolt circle diameter(mm)	116.1
Baffle cut-out diameter(mm)	102.8
Overall diameter(mm)	126.9
Overall depth(mm)	65
Net weight(kg)	0.7

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FH0425HCX25 & COAXIAL

- Point source coaxial design
- 60 Watt Max Power
- 75Hz to 20KHz frequency response
- 85 dB 1W@1m sensitivity
- Ferrite magnet structure

60 Max Power (W)

75-20K Frequency range (Hz)

85dB Sensitivity (1W@1m)

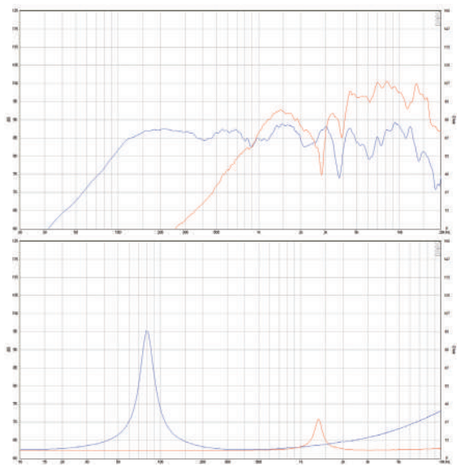
COAXIAL Loudspeakers

Specifications

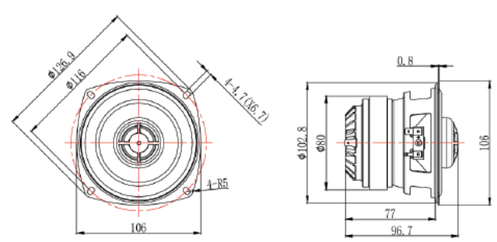
Model	FH0425HCX25
Nominal diameter(in)	4
Nominal impedance(Ohm)	8
Frequency range(Hz)	75-20000
Dispersion angle	80°
Magnet material	Ferrite
LF	
Sensitivity(1W/1m)(dB)	85
Power handling capacity(W)	30
Max power(W)	60
Voice coil diameter(mm/in)	25.5/1.0
Winding material	CCAW
Flux density(T)	0.85
Former material	TIL
Cone material	Paper
Surround material	Rubber
Gap height(mm/in)	5/0.2
Voice coil winding height(mm/in)	8.5/0.34
Chassis material	Steel
Fs(Hz)	75
Re(Ohm)	5.4
Qms	7.47
Qes	0.34
Qts	0.33
Vas(L)	3.52
Mms(gr)	5.8
Cms(mm/N)	0.769
BL(Tm)	6.2
Le(mH)	0.521
Xmax(mm)	1.75
η_0(%)	0.43
Sd(cm2)	56.8
HF	
Sensitivity (lW/1 m)(dB)	97
Power handling capacity(W)	7
Max power(W)	14
Nominal impedance(Ohm)	8
Frequency range (Hz)	3K-20K
Voice coil diameter (mm/in)	25.4/1
Winding material	Copper
Re (Ohm)	6
Flux density(T)	1.3
Diaphragm material	Silk
Bolt circle diameter(mm)	116
Baffle cut-out diameter(mm)	102.8
Overall diameter(mm)	126.9
Overall depth(mm)	96.7
Net weight(kg)	0.9

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA0638GCX34 & COAXIAL

- Point source coaxial design
- 200 Watt Max Power
- 80Hz to 20KHz frequency response
- 88 dB 1W@1m sensitivity
- Ferrite magnet structure

200 Max Power (W)

80-20K Frequency range (Hz)

88dB Sensitivity (1W@1m)

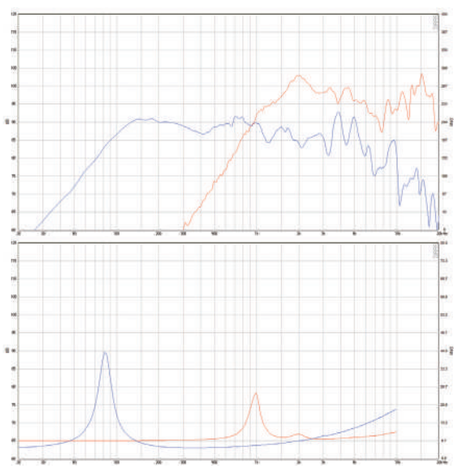
COAXIAL Loudspeakers

Specifications

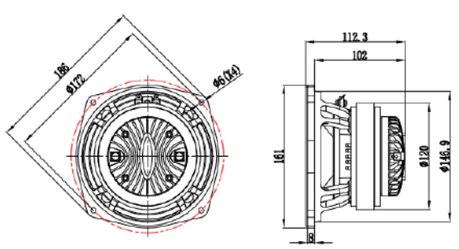
Model	FA0638GCX34
Nominal diameter(in)	6.5
Nominal impedance(Ohm)	4
Frequency range(Hz)	80-20000
Dispersion angle	70°
Magnet material	Ferrite
LF	
Sensitivity(1W/1m)(dB)	88
Power handling capacity(W)	100
Max power(W)	200
Voice coil diameter(mm/in)	38.6/1.5
Winding material	Copper
Flux density(T)	1.0
Former material	Fibreglass
Cone material	Paper
Surround material	Polycotton
Gap height(mm/in)	6/0.24
Voice coil winding height(mm/in)	11/0.43
Chassis material	Aluminium
Fs(Hz)	84.2
Re(Ohm)	3.1
Qms	7.92
Qes	0.63
Qts	0.58
Vas(L)	6.4
Mms(gr)	14.1
Cms(mm/N)	0.253
BL(Tm)	6.1
Le(mH)	0.221
Xmax(mm)	2.5
η_0(%)	0.59
Sd(cm2)	133.7
HF	
Sensitivity (lW/1 m)(dB)	102
Power handling capacity(W)	20
Max power(W)	40
Nominal impedance(Ohm)	8
Frequency range (Hz)	2K-20K
Voice coil diameter (mm/in)	34.4/1.35
Winding material	Copper
Re (Ohm)	5.4
Flux density(T)	1.3
Diaphragm material	Polyimide
Bolt circle diameter(mm)	172
Baffle cut-out diameter(mm)	146.9
Overall diameter(mm)	186
Overall depth(mm)	112.3
Net weight(kg)	2.5

· AES power is measured with 6dB crest factor continuous pink noise in 2 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax is defined at the BL drops by 18% of the original figure.

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA0535CXN34-8 & COAXIAL

- Point source coaxial design
- 200 Watt Max Power
- 100Hz to 20KHz frequency response
- 90 dB 1W@1m sensitivity
- Neodymium magnet structure

200 Max Power (W)

100-20K Frequency range (Hz)

90dB Sensitivity (1W@1m)

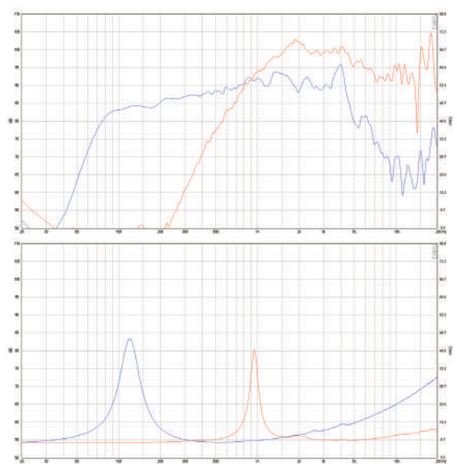
COAXIAL Loudspeakers

Specifications

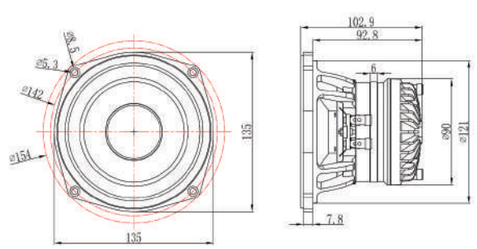
Model	FA0535CXN34-8
Nominal diameter(in)	5
Nominal impedance(Ohm)	8
Frequency range(Hz)	100-20000
Dispersion angle	90°
Magnet material	Neodymium
LF	
Sensitivity(1W/1m)(dB)	90
Power handling capacity(W)	100
Max power(W)	200
Voice coil diameter(mm/in)	35.5/1.4
Winding material	CCAW
Flux density(T)	1.1
Former material	Glass Fiber
Cone material	Paper
Surround material	Polycotton
Gap height(mm/in)	6/0.24
Voice coil winding height(mm/in)	12.2/0.48
Chassis material	Aluminium
Fs(Hz)	116
Re(Ohm)	5.5
Qms	4.35
Qes	0.56
Qts	0.5
Vas(L)	2.5
Mms(gr)	7.11
Cms(mm/N)	0.264
BL(Tm)	7.06
Le(mH)	0.242
Xmax(mm)	3.1
η_0(%)	0.678
Sd(cm2)	81.71
HF	
Sensitivity (lW/1 m)(dB)	98
Power handling capacity(W)	20
Max power(W)	40
Nominal impedance(Ohm)	8
Frequency range (Hz)	2K-20K
Voice coil diameter (mm/in)	34.4/1.35
Winding material	CCAW
Re (Ohm)	6
Flux density(T)	1.6
Diaphragm material	Polyimide
Bolt circle diameter(mm)	142
Baffle cut-out diameter(mm)	121
Overall diameter(mm)	154
Overall depth(mm)	102.9
Net weight(kg)	1.5

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FB1065CX34 & COAXIAL

- Point source coaxial design
- 400 Watt Max Power
- 55Hz to 20KHz frequency response
- 94 dB 1W@1m sensitivity
- Ferrite magnet structure

400
Max Power (W)

55-20K
Frequency range (Hz)

94dB
Sensitivity (1W@1m)

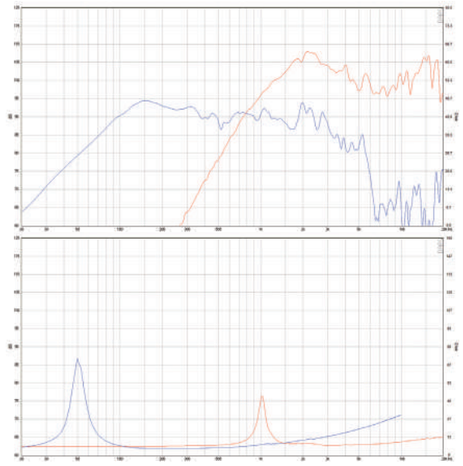
COAXIAL Loudspeakers

Specifications

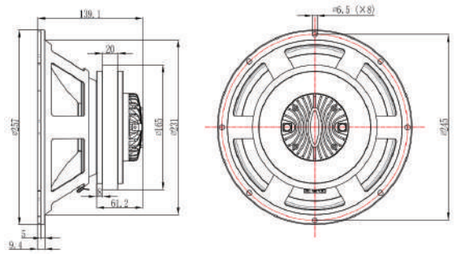
Model	FB1065CX34
Nominal diameter(in)	10
Nominal impedance(Ohm)	4
Frequency range(Hz)	55-20000
Dispersion angle	80°
Magnet material	Ferrite
LF	
Sensitivity(1W/1m)(dB)	94
Power handling capacity(W)	200
Max power(W)	400
Voice coil diameter(mm/in)	63.5/2.5
Winding material	Copper
Flux density(T)	0.85
Former material	Glass Fiber
Cone material	Paper
Surround material	Polycotton
Gap height(mm/in)	8/0.32
Voice coil winding height(mm/in)	12.5/0.49
Chassis material	Steel
Fs(Hz)	53
Re(Ohm)	3.6
Qms	11.25
Qes	0.41
Qts	0.4
Vas(L)	50.8
Mms(gr)	31.4
Cms(mm/N)	0.29
BL(Tm)	9.54
Le(mH)	0.421
Xmax(mm)	2.25
η_0(%)	1.73
Sd(cm2)	350
HF	
Sensitivity (lW/1 m)(dB)	102
Power handling capacity(W)	30
Max power(W)	60
Nominal impedance(Ohm)	8
Frequency range (Hz)	1.8K-20K
Voice coil diameter (mm/in)	34.4/1.35
Winding material	CCAW
Re (Ohm)	6
Flux density(T)	1.5
Diaphragm material	Polyimide
Bolt circle diameter(mm)	245
Baffle cut-out diameter(mm)	231
Overall diameter(mm)	257
Overall depth(mm)	139.1
Net weight(kg)	4.52

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FB1265CX34 & COAXIAL

- Point source coaxial design
- 500 Watt Max Power
- 55Hz to 20KHz frequency response
- 94 dB 1W@1m sensitivity
- Ferrite magnet structure

500
Max Power (W)

55-20K
Frequency range (Hz)

94dB
Sensitivity (1W@1m)

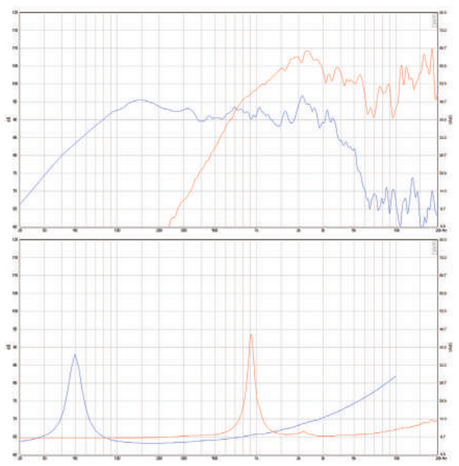
COAXIAL Loudspeakers

Specifications

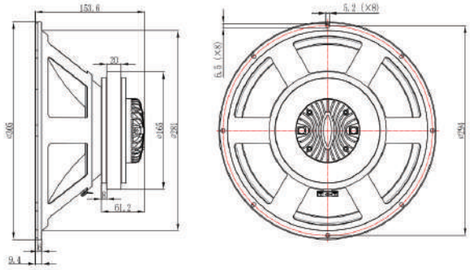
Model	FB1265CX34
Nominal diameter(in)	12
Nominal impedance(Ohm)	4
Frequency range(Hz)	55-20000
Dispersion angle	80°
Magnet material	Ferrite
LF	
Sensitivity(1W/1m)(dB)	94
Power handling capacity(W)	250
Max power(W)	500
Voice coil diameter(mm/in)	63.5/2.5
Winding material	Copper
Flux density(T)	0.85
Former material	Glass Fiber
Cone material	Paper
Surround material	Polycotton
Gap height(mm/in)	8/0.32
Voice coil winding height(mm/in)	14.2/0.56
Chassis material	Steel
Fs(Hz)	53
Re(Ohm)	3.4
Qms	8.31
Qes	0.64
Qts	0.59
Vas(L)	75.3
Mms(gr)	50.4
Cms(mm/N)	0.18
BL(Tm)	9.43
Le(mH)	0.405
Xmax(mm)	3.1
η_0(%)	1.66
Sd(cm2)	539
HF	
Sensitivity (lW/1 m)(dB)	102
Power handling capacity(W)	30
Max power(W)	60
Nominal impedance(Ohm)	8
Frequency range (Hz)	1.8K-20K
Voice coil diameter (mm/in)	34.4/1.35
Winding material	CCAW
Re (Ohm)	6
Flux density(T)	1.5
Diaphragm material	Polyimide
Bolt circle diameter(mm)	294
Baffle cut-out diameter(mm)	281
Overall diameter(mm)	305
Overall depth(mm)	153.6
Net weight(kg)	4.62

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FB1565GCX34 & COAXIAL

- Point source coaxial design
- 500 Watt Max Power
- 45Hz to 20KHz frequency response
- 97 dB 1W@1m sensitivity
- Ferrite magnet structure

500 Max Power (W)

45-20K Frequency range (Hz)

97dB Sensitivity (1W@1m)

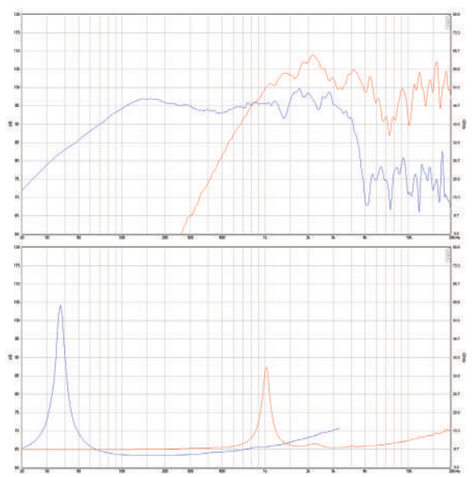
COAXIAL Loudspeakers

Specifications

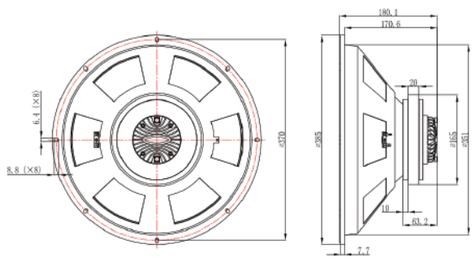
Model	FB1565GCX34
Nominal diameter(in)	15
Nominal impedance(Ohm)	4
Frequency range(Hz)	45-20000
Dispersion angle	70°
Magnet material	Ferrite
LF	
Sensitivity(1W/1m)(dB)	97
Power handling capacity(W)	250
Max power(W)	500
Voice coil diameter(mm/in)	63.5/2.5
Winding material	Copper
Flux density(T)	1
Former material	Glass Fiber
Cone material	Paper
Surround material	Polycotton
Gap height(mm/in)	8/0.32
Voice coil winding height(mm/in)	14.2/0.56
Chassis material	Steel
Fs(Hz)	44
Re(Ohm)	3.4
Qms	3.49
Qes	0.58
Qts	0.5
Vas(L)	145.3
Mms(gr)	96
Cms(mm/N)	0.137
BL(Tm)	12.5
Le(mH)	0.373
Xmax(mm)	3.1
η_0(%)	2.06
Sd(cm2)	865.7
HF	
Sensitivity (lW/1 m)(dB)	102
Power handling capacity(W)	30
Max power(W)	60
Nominal impedance(Ohm)	8
Frequency range (Hz)	1.8K-20K
Voice coil diameter (mm/in)	34.4/1.35
Winding material	CCAW
Re (Ohm)	6
Flux density(T)	1.45
Diaphragm material	Polyimide
Bolt circle diameter(mm)	370
Baffle cut-out diameter(mm)	351
Overall diameter(mm)	385
Overall depth(mm)	180.1
Net weight(kg)	5.5

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FH1064HCXN44 & COAXIAL

- Point source coaxial design
- 600 Watt Max Power
- 60Hz to 20KHz frequency response
- 94 dB 1W@1m sensitivity
- Ferrite magnet structure

600 Max Power (W)

60-20K Frequency range (Hz)

94dB Sensitivity (1W@1m)

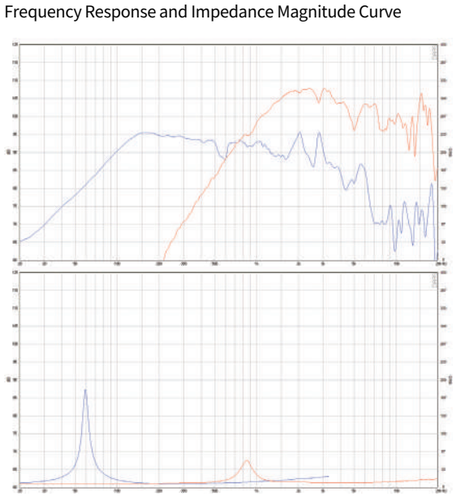
COAXIAL Loudspeakers

Specifications

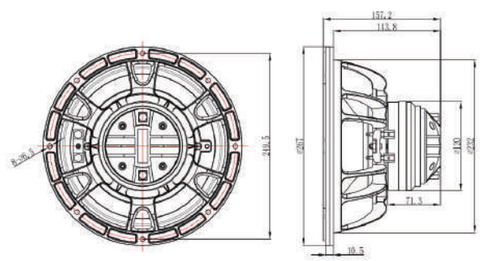
Model	FH1064HCXN44
Nominal diameter(in)	10
Nominal impedance(Ohm)	8
Frequency range(Hz)	60-20000
Dispersion angle	70°
Magnet material	Neodymium
LF	
Sensitivity(1W/1m)(dB)	94
Power handling capacity(W)	300
Max power(W)	600
Voice coil diameter(mm/in)	63.5/2.5
Winding material	Copper
Flux density(T)	1.05
Former material	Glass Fiber
Cone material	Paper
Surround material	Polycotton
Gap height(mm/in)	9/0.35
Voice coil winding height(mm/in)	18.5/0.73
Chassis material	Aluminium
Fs(Hz)	66
Re(Ohm)	5.3
Qms	6.96
Qes	0.37
Qts	0.35
Vas(L)	25.6
Mms(gr)	39.9
Cms(mm/N)	0.148
BL(Tm)	15.4
Le(mH)	0.563
Xmax(mm)	4.75
η_0(%)	1.91
Sd(cm2)	349.7
HF	
Sensitivity (lW/1 m)(dB)	104
Power handling capacity(W)	40
Max power(W)	80
Nominal impedance(Ohm)	8
Frequency range (Hz)	1.6K-20K
Voice coil diameter (mm/in)	44.4/1.75
Winding material	Copper
Re (Ohm)	6.3
Flux density(T)	1.9
Diaphragm material	Polyimide
Bolt circle diameter(mm)	249.5
Baffle cut-out diameter(mm)	232
Overall diameter(mm)	267
Overall depth(mm)	157.2
Net weight(kg)	4.1

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA1276CXN75-8 & COAXIAL

- Point source coaxial design
- 700 Watt Max Power
- 55Hz to 20KHz frequency response
- 97 dB 1W@1m sensitivity
- Neodymium magnet structure

700
Max Power (W)

55-20K
Frequency range (Hz)

97dB
Sensitivity (1W@1m)

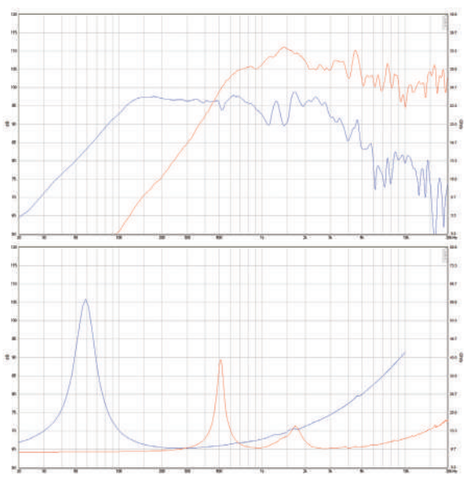
COAXIAL Loudspeakers

Specifications

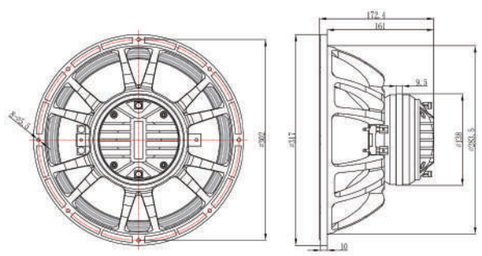
Model	FA1276CXN75-8
Nominal diameter(in)	12
Nominal impedance(Ohm)	8
Frequency range(Hz)	55-20000
Dispersion angle	70°
Magnet material	Neodymium
LF	
Sensitivity(1W/1m)(dB)	97
Power handling capacity(W)	350
Max power(W)	700
Voice coil diameter(mm/in)	75.8/3.0
Winding material	Copper
Flux density(T)	1.15
Former material	Glass Fiber
Cone material	Paper
Surround material	Polycotton
Gap height(mm/in)	9/0.35
Voice coil winding height(mm/in)	18.7/0.74
Chassis material	Aluminium
Fs(Hz)	55
Re(Ohm)	5.3
Qms	4.02
Qes	0.36
Qts	0.33
Vas(L)	57.58
Mms(gr)	62.5
Cms(mm/N)	0.135
BL(Tm)	17.8
Le(mH)	0.569
Xmax(mm)	4.85
η_0(%)	2.54
Sd(cm2)	547.4
HF	
Sensitivity (lW/1 m)(dB)	106
Power handling capacity(W)	70
Max power(W)	140
Nominal impedance(Ohm)	8
Frequency range (Hz)	1.2K-20K
Voice coil diameter (mm/in)	74.46/3.0
Winding material	CCAR
Re (Ohm)	5
Flux density(T)	1.85
Diaphragm material	Titanium
Bolt circle diameter(mm)	302
Baffle cut-out diameter(mm)	283.5
Overall diameter(mm)	317
Overall depth(mm)	172.4
Net weight(kg)	5.6

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FH1576HCXN75 & COAXIAL

- Point source coaxial design
- 800 Watt Max Power
- 45Hz to 20KHz frequency response
- 98 dB 1W@1m sensitivity
- Neodymium magnet structure

800
Max Power (W)

45-20K
Frequency range (Hz)

98dB
Sensitivity (1W@1m)

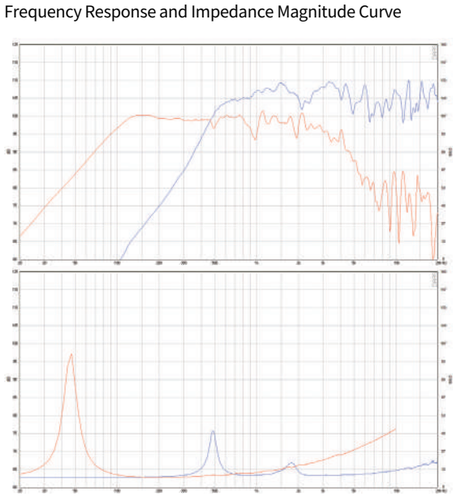
COAXIAL Loudspeakers

Specifications

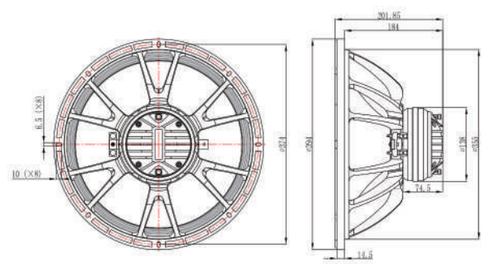
Model	FH1576HCXN75
Nominal diameter(in)	15
Nominal impedance(Ohm)	8
Frequency range(Hz)	45-20000
Dispersion angle	70°
Magnet material	Neodymium
LF	
Sensitivity(1W/1m)(dB)	98
Power handling capacity(W)	400
Max power(W)	800
Voice coil diameter(mm/in)	75.8/3.0
Winding material	Copper
Flux density(T)	1.15
Former material	Glass Fiber
Cone material	Paper
Surround material	Polycotton
Gap height(mm/in)	9/0.35
Voice coil winding height(mm/in)	18.7/0.74
Chassis material	Aluminium
Fs(Hz)	47
Re(Ohm)	5.3
Qms	6.01
Qes	0.47
Qts	0.43
Vas(L)	139.34
Mms(gr)	87.8
Cms(mm/N)	0.13
BL(Tm)	17.2
Le(mH)	0.561
Xmax(mm)	4.85
η_0(%)	3.02
Sd(cm2)	869.4
HF	
Sensitivity (lW/1 m)(dB)	106
Power handling capacity(W)	70
Max power(W)	140
Nominal impedance(Ohm)	8
Frequency range (Hz)	1.2K-20K
Voice coil diameter (mm/in)	74.46/3.0
Winding material	Copper
Re (Ohm)	7.2
Flux density(T)	1.85
Diaphragm material	Titanium
Bolt circle diameter(mm)	374
Baffle cut-out diameter(mm)	355
Overall diameter(mm)	394
Overall depth(mm)	201.9
Net weight(kg)	6.1

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FE25-3 & TWEETER

- 20 Watt Max Power
- 25.4mm(1 inch) voice coil
- 1.5KHz to 20KHz frequency response
- 88 dB 1W@1m sensitivity
- Ferrite magnet structure

20 Max Power (W)

25.4 Voice coil (mm)

88dB Sensitivity (1W@1m)

1.5K-20K Frequency range (Hz)

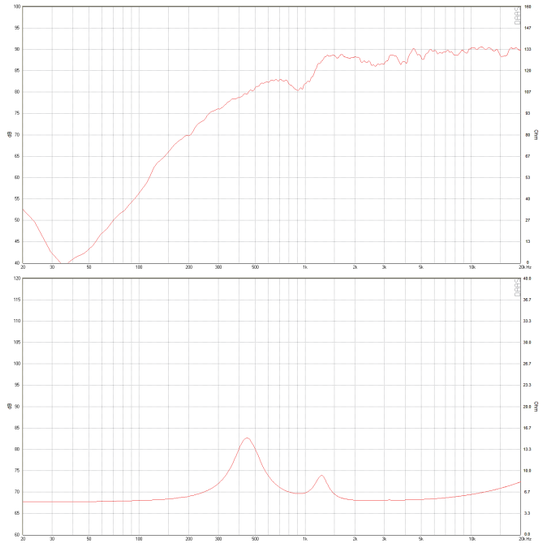
HF DRIVERS

Specifications

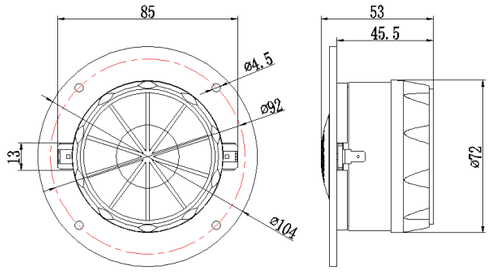
Model	FE25-3
Power handling capacity(W)	10
Max power(W)	20
Nominal impedance(Ohm)	6
Sensitivity (lW/1 m)(dB)	88
Frequency range(Hz)	1.5K—20K
Voice coil diameter(mm/in)	25.4/1
Re(Ohm)	4.7
Diaphragm	Aluminum+Terdurron
Voice coil	Copper Clad Aluminum
Magnet material	Ferrite
Bolt circle diameter(mm)	92
Overall diameter(mm)	104
Overall depth(mm)	53
Net weight(kg)	0.62

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured at one meter at 2.45V and 6 ohm nominal impedance.

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FE25-4 & TWEETER

- 20 Watt Max Power
- 25.4mm(1 inch) voice coil
- 1.5KHz to 20KHz frequency response
- 88 dB 1W@1m sensitivity
- Ferrite magnet structure

20 Max Power (W)

25.4 Voice coil (mm)

88dB Sensitivity (1W@1m)

1.5K-20K Frequency range (Hz)

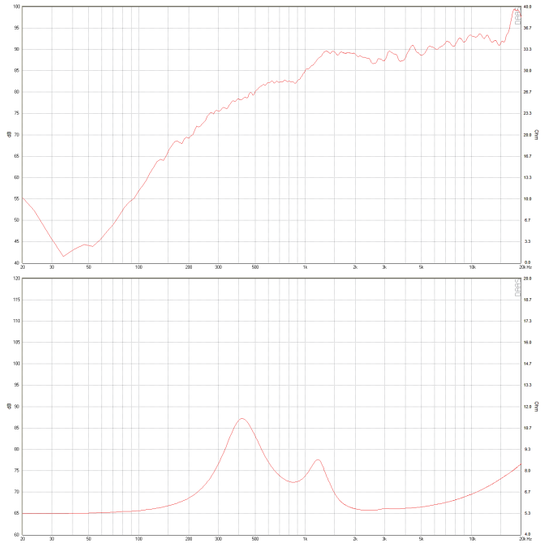
HF DRIVERS

Specifications

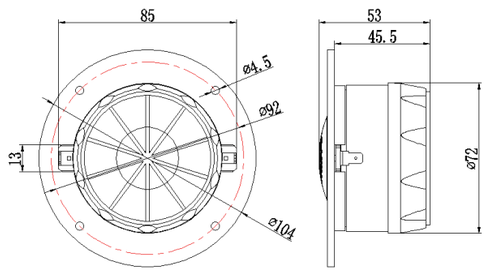
Model	FE25-4
Power handling capacity(W)	10
Max power(W)	20
Nominal impedance(Ohm)	6
Sensitivity (lW/1 m)(dB)	88
Frequency range(Hz)	1.5K—20K
Voice coil diameter(mm/in)	25.4/1
Re(Ohm)	4.7
Diaphragm	Silk
Voice coil	Copper Clad Aluminum
Magnet material	Ferrite
Bolt circle diameter(mm)	92
Overall diameter(mm)	104
Overall depth(mm)	53
Net weight(kg)	0.62

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured at one meter at 2.45V and 6 ohm nominal impedance.

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FB0426G & WOOFER

- 50 Watt Max Power
- 25.5mm(1 inch) voice coil
- 70Hz to 700Hz frequency response
- 82 dB 1W@1m sensitivity
- Ferrite magnet structure

50 Power handling capacity(W)

25.5 Voice coil(mm)

82dB Sensitivity(1W@1m)

70-700 Frequency range (Hz)

LF Loudspeakers

Specifications

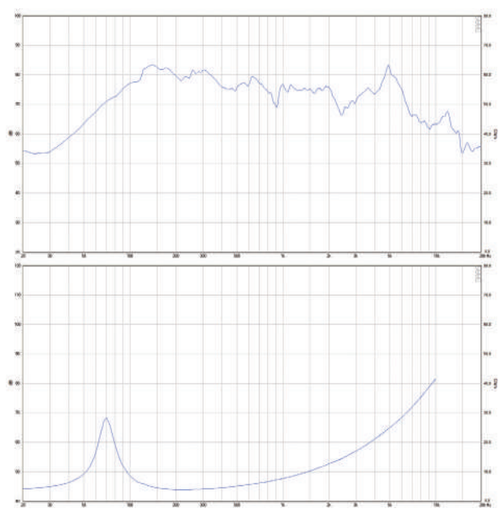
Model	FB0426G
Nominal diameter(in)	4
Power handling capacity(W)	25
Max power(W)	50
Nominal impedance(Ohm)	4
Sensitivity(1W/1m)(dB)	82
Frequency range (Hz)	70-700
Voice coil diameter (mm/in)	25.5/1
Coil material	Copper
Former material	Polyimide
Cone material	Kevlar
Surround material	Rubber
Gap height (mm/in)	4/0.16
Voice coil winding height(mm/in)	12.3/0.48
Chassis material	Steel

THIELE & SMALL PARAMETERS	
Fs(Hz)	75.2
Re(Ohm)	3.1
Qms	4.57
Qes	0.57
Qts	0.51
Vas(L)	1.37
Mms(gr)	12.3
Cms(mm/N)	0.36
BL(Tm)	5.6
Le(mH)	0.68
Xmax(mm)	4.1
η_0(%)	0.1
Sd(cm2)	51.5

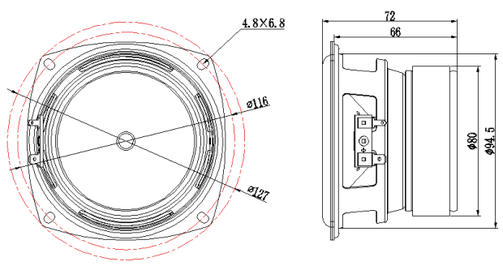
Overall diameter(mm)	127
Bolt circle diameter(mm)	116
Baffle cut-out diameter(mm)	94.5
Overall depth(mm)	72
Net weight(kg)	0.85

· IEC power is measured with 6dB crest factor continuous pink noise in 100 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA0425HN & FULL RANGE

- 60 Watt Max Power
- 25.5mm(1 inch) voice coil
- 90Hz to 18KHz frequency response
- 90 dB 1W@1m sensitivity
- Neodymium magnet structure

60 Power handling capacity(W)

25.5 Voice coil(mm)

90dB Sensitivity(1W@1m)

90-18K Frequency range (Hz)

LF Loudspeakers

Specifications

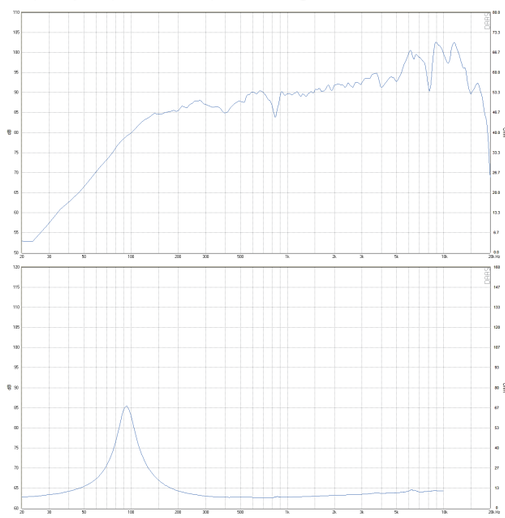
Model	FA0425HN
Nominal diameter(in)	4
Power handling capacity(W)	30
Max power(W)	60
Nominal impedance(Ohm)	8
Sensitivity(1W/1m)(dB)	90
Frequency range (Hz)	90—18000
Voice coil diameter (mm/in)	25.5/1
Coil material	Copper
Former material	Kapton
Cone material	Glassfibre
Surround material	Cloth
Gap height (mm/in)	5/0.2
Voice coil winding height(mm/in)	11/0.43
Chassis material	Aluminum

THIELE & SMALL PARAMETERS	
Fs(Hz)	88.7
Re(Ohm)	5.6
Qms	4.47
Qes	0.32
Qts	0.3
Vas(L)	3.4
Mms(gr)	5.2
Cms(mm/N)	0.61
BL(Tm)	7.1
Le(mH)	0.046
Xmax(mm)	3.2
η_0(%)	0.7
Sd(cm2)	62.21

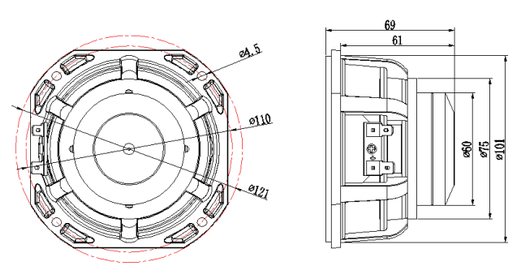
Overall diameter(mm)	121
Bolt circle diameter(mm)	110
Baffle cut-out diameter(mm)	101
Overall depth(mm)	69
Net weight(kg)	0.66

· IEC power is measured with 6dB crest factor continuous pink noise in 100 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FB0539GN-1 & WOOFER

- 300 Watt Max Power
- 38.6mm(1.5inch)voice coil
- 74Hz to 4KHz frequency response
- 83 dB 1W@1m sensitivity
- Neodymium magnet structure

300 Power handling capacity(W)

38.6 Voice coil(mm)

83dB Sensitivity(1W@1m)

74-4K Frequency range (Hz)

LF Loudspeakers

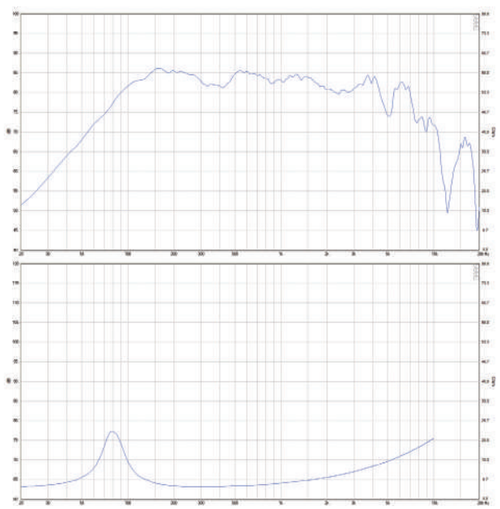
Specifications

Model	FB0539GN-1
Nominal diameter(in)	5
Power handling capacity(W)	150
Max power(W)	300
Nominal impedance(Ohm)	3
Sensitivity(1W/1m)(dB)	83
Frequency range (Hz)	74-4000
Voice coil diameter (mm/in)	38.6/1.5
Coil material	Copper
Former material	Glassfibre
Cone material	Paper
Surround material	Rubber
Gap height (mm/in)	6/0.24
Voice coil winding height(mm/in)	18/0.7
Chassis material	Steel

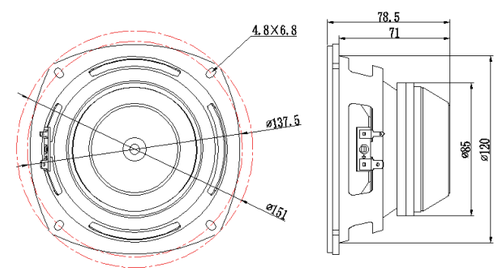
THIELE & SMALL PARAMETERS	
Fs(Hz)	74.3
Re(Ohm)	2.48
Qms	4.35
Qes	0.48
Qts	0.43
Vas(L)	2.7
Mms(gr)	20.4
Cms(mm/N)	0.224
BL(Tm)	7
Le(mH)	0.3
Xmax(mm)	6
η_0(%)	0.22
Sd(cm2)	92.5
Overall diameter(mm)	151
Bolt circle diameter(mm)	137.5
Baffle cut-out diameter(mm)	120
Overall depth(mm)	78.5
Net weight(kg)	1.1

· IEC power is measured with 6dB crest factor continuous pink noise in 100 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FF0650 & MID RANGE

- 200 Watt Max Power
- 50.8mm(2.0inch)voice coil
- 100Hz to 4KHz frequency response
- 95 dB 1W@1m sensitivity
- Neodymium magnet structure

200 Power handling capacity(W)

50.8 Voice coil(mm)

95dB Sensitivity(1W@1m)

100-4K Frequency range (Hz)

LF Loudspeakers

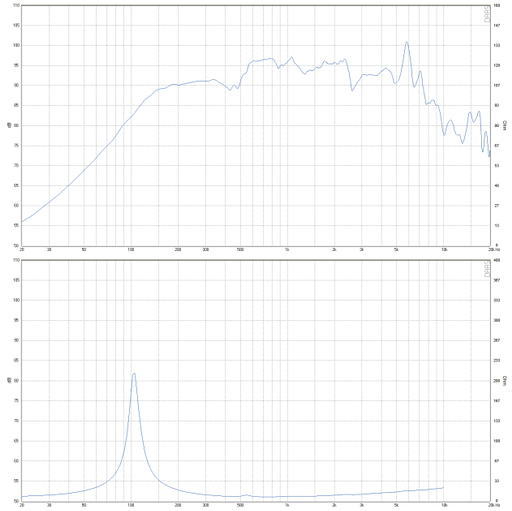
Specifications

Model	FF0650
Nominal diameter(in)	6.5
Power handling capacity(W)	100
Max power(W)	200
Nominal impedance(Ohm)	8
Sensitivity(1W/1m)(dB)	95
Frequency range (Hz)	100—4000
Voice coil diameter (mm/in)	50.8/2.0
Coil material	CCAW
Former material	Glassfibre
Cone material	Kevlar
Surround material	Polycotton
Gap height (mm/in)	8/0.31
Voice coil winding height(mm/in)	13/0.51
Chassis material	Aluminum

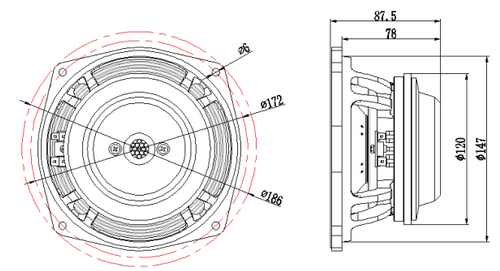
THIELE & SMALL PARAMETERS	
Fs(Hz)	100
Re(Ohm)	5.8
Qms	4.59
Qes	0.21
Qts	0.2
Vas(L)	4
Mms(gr)	20.2
Cms(mm/N)	0.157
BL(Tm)	16.5
Le(mH)	0.26
Xmax(mm)	5.35
η_0(%)	1.83
Sd(cm2)	134.3
Overall diameter(mm)	186
Bolt circle diameter(mm)	172
Baffle cut-out diameter(mm)	147
Overall depth(mm)	87.5
Net weight(kg)	2.4

· IEC power is measured with 6dB crest factor continuous pink noise in 100 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA0632H & WOOFER

- 160 Watt Max Power
- 32.4mm(1.3inch)voice coil
- 60Hz to 4KHz frequency response
- 88 dB 1W@1m sensitivity
- Ferrite magnet structure

160 Power handling capacity(W)

32.4 Voice coil(mm)

88dB Sensitivity(1W@1m)

60-4K Frequency range (Hz)

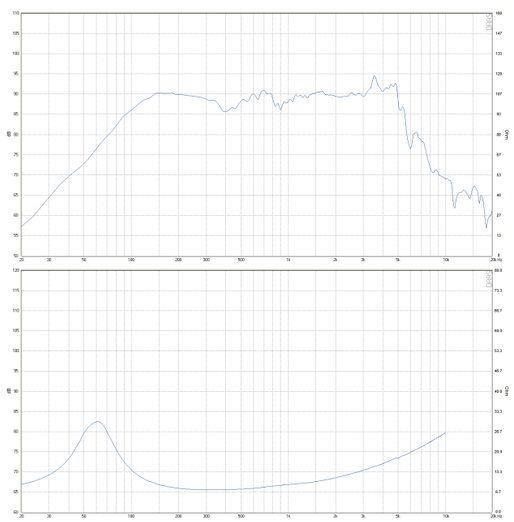
LF Loudspeakers

Specifications

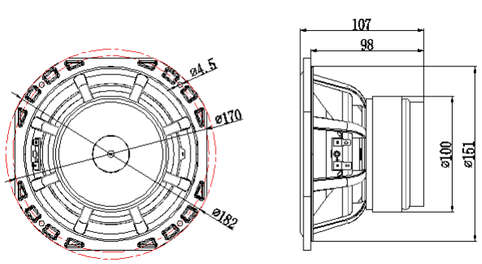
Model	FA0632H
Nominal diameter(in)	6.5
Power handling capacity(W)	80
Max power(W)	160
Nominal impedance(Ohm)	8
Sensitivity(1W/1m)(dB)	88
Frequency range (Hz)	60-4000
Voice coil diameter (mm/in)	32.4/1.3
Coil material	Copper
Former material	Aluminum
Cone material	PP
Surround material	Rubber
Gap height (mm/in)	6/0.24
Voice coil winding height(mm/in)	16.7/0.66
Chassis material	Aluminum
THIELE & SMALL PARAMETERS	
Fs(Hz)	54
Re(Ohm)	6.3
Qms	2.78
Qes	0.61
Qts	0.49
Vas(L)	11.7
Mms(gr)	21.4
Cms(mm/N)	0.4
BL(Tm)	8.8
Le(mH)	0.31
Xmax(mm)	5.35
η_0(%)	0.3
Sd(cm2)	143
Overall diameter(mm)	182
Bolt circle diameter(mm)	170
Baffle cut-out diameter(mm)	151
Overall depth(mm)	107
Net weight(kg)	2.3

· IEC power is measured with 6dB crest factor continuous pink noise in 100 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA0635G & WOOFER

- 160 Watt Max Power
- 35.5mm(2.0inch)voice coil
- 62Hz to 4.5KHz frequency response
- 87 dB 1W@1m sensitivity
- Ferrite magnet structure

160 Power handling capacity(W)

35.5 Voice coil(mm)

87dB Sensitivity(1W@1m)

62-4.5K Frequency range (Hz)

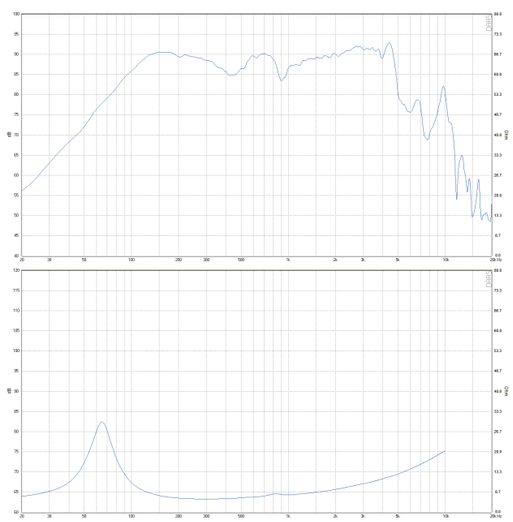
LF Loudspeakers

Specifications

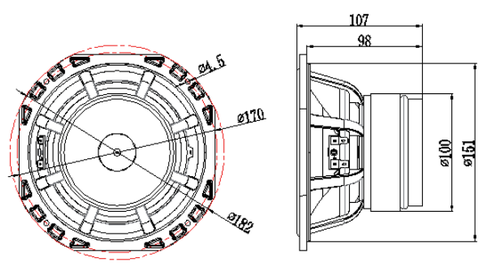
Model	FA0635G
Nominal diameter(in)	6.5
Power handling capacity(W)	80
Max power(W)	160
Nominal impedance(Ohm)	4
Sensitivity(1W/1m)(dB)	87
Frequency range (Hz)	62—4500
Voice coil diameter (mm/in)	35.5/1.4
Coil material	Copper
Former material	Polyimide
Cone material	Paper
Surround material	Rubber
Gap height (mm/in)	6/0.24
Voice coil winding height(mm/in)	15/0.59
Chassis material	Aluminum
THIELE & SMALL PARAMETERS	
Fs(Hz)	62
Re(Ohm)	3.4
Qms	4.18
Qes	0.41
Qts	0.37
Vas(L)	11
Mms(gr)	16.7
Cms(mm/N)	0.384
BL(Tm)	7.4
Le(mH)	0.13
Xmax(mm)	4.5
η_0(%)	0.67
Sd(cm2)	143
Overall diameter(mm)	182
Bolt circle diameter(mm)	170
Baffle cut-out diameter(mm)	151
Overall depth(mm)	107
Net weight(kg)	2.3

· IEC power is measured with 6dB crest factor continuous pink noise in 100 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA0838H & WOOFER

- 240 Watt Max Power
- 38.6mm(1.5inch)voice coil
- 54Hz to 4KHz frequency response
- 90 dB 1W@1m sensitivity
- Ferrite magnet structure

240 Power handling capacity(W)

38.6 Voice coil(mm)

90dB Sensitivity(1W@1m)

54-4K Frequency range (Hz)

LF Loudspeakers

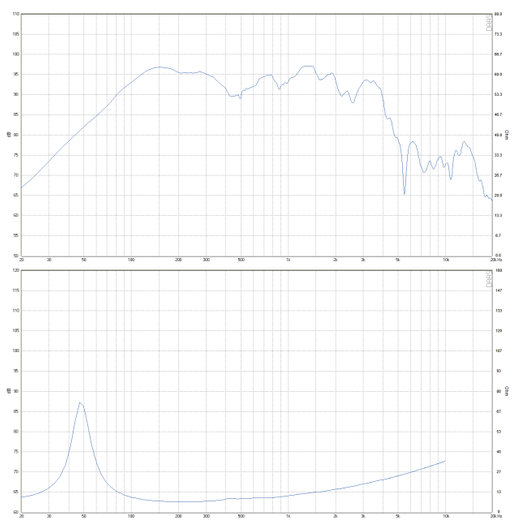
Specifications

Model	FA0838H
Nominal diameter(in)	8
Power handling capacity(W)	120
Max power(W)	240
Nominal impedance(Ohm)	8
Sensitivity(1W/1m)(dB)	90
Frequency range (Hz)	54-4000
Voice coil diameter (mm/in)	38.6/1.5
Coil material	Copper
Former material	Glass Fiber
Cone material	PP
Surround material	Rubber
Gap height (mm/in)	8/0.31
Voice coil winding height(mm/in)	18.1/0.71
Chassis material	Aluminum

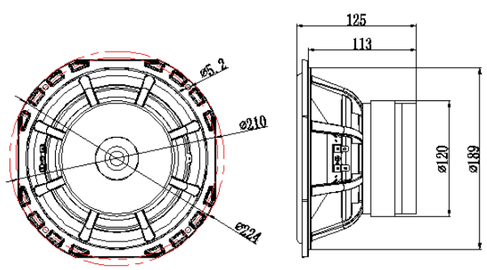
THIELE & SMALL PARAMETERS	
Fs(Hz)	50.6
Re(Ohm)	5.8
Qms	6.63
Qes	0.52
Qts	0.48
Vas(L)	18.5
Mms(gr)	34.5
Cms(mm/N)	0.28
BL(Tm)	11.1
Le(mH)	0.38
Xmax(mm)	5.05
η_0(%)	0.45
Sd(cm2)	214
Overall diameter(mm)	224
Bolt circle diameter(mm)	210
Baffle cut-out diameter(mm)	189
Overall depth(mm)	125
Net weight(kg)	3.7

· IEC power is measured with 6dB crest factor continuous pink noise in 100 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA0838G & WOOFER

- 240 Watt Max Power
- 38.6mm(1.5inch)voice coil
- 38Hz to 4KHz frequency response
- 90 dB 1W@1m sensitivity
- Ferrite magnet structure

240 Power handling capacity(W)

38.6 Voice coil(mm)

90dB Sensitivity(1W@1m)

38-4K Frequency range (Hz)

LF Loudspeakers

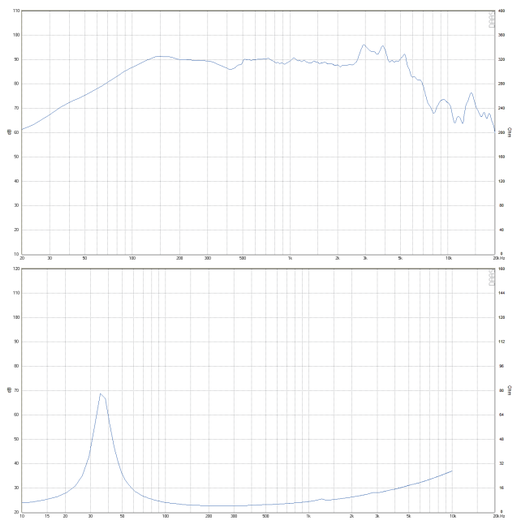
Specifications

Model	FA0838G
Nominal diameter(in)	8
Power handling capacity(W)	120
Max power(W)	240
Nominal impedance(Ohm)	4
Sensitivity(1W/1m)(dB)	90
Frequency range (Hz)	38—4000
Voice coil diameter (mm/in)	38.6/1.5
Coil material	Copper
Former material	Glass Fiber
Cone material	Paper
Surround material	Rubber
Gap height (mm/in)	8/0.31
Voice coil winding height(mm/in)	15.4/0.6
Chassis material	Aluminum

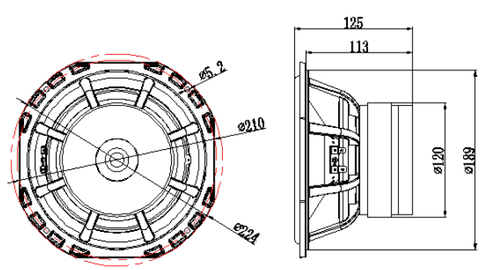
THIELE & SMALL PARAMETERS	
Fs(Hz)	37.9
Re(Ohm)	3.4
Qms	8.65
Qes	0.27
Qts	0.26
Vas(L)	40.14
Mms(gr)	28.6
Cms(mm/N)	0.62
BL(Tm)	9.2
Le(mH)	0.36
Xmax(mm)	4.9
η_0(%)	0.77
Sd(cm2)	214
Overall diameter(mm)	224
Bolt circle diameter(mm)	210
Baffle cut-out diameter(mm)	189
Overall depth(mm)	125
Net weight(kg)	3.7

· IEC power is measured with 6dB crest factor continuous pink noise in 100 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA1264H & SUBWOOFER

- 600 Watt Max Power
- 63.5mm(2.5 inch) voice coil
- 35Hz to 500Hz frequency response
- 89 dB 1W@1m sensitivity
- Ferrite magnet structure

600 Power handling capacity(W)

63.5 Voice coil(mm)

89dB Sensitivity(1W@1m)

35-500 Frequency range (Hz)

LF Loudspeakers

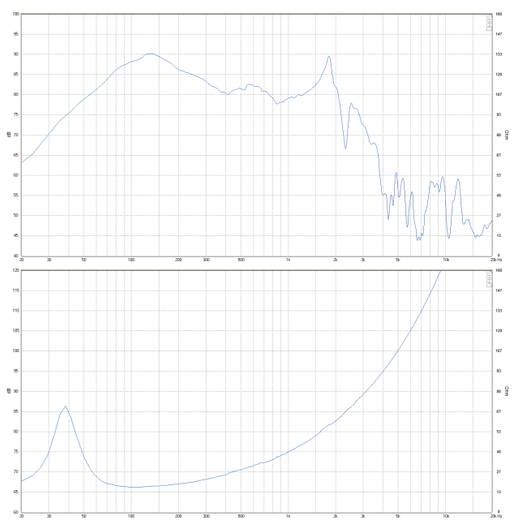
Specifications

Model	FA1264H
Nominal diameter(in)	12
Power handling capacity(W)	300
Max power(W)	600
Nominal impedance(Ohm)	8
Sensitivity(1W/1m)(dB)	89
Frequency range (Hz)	35-500
Voice coil diameter (mm/in)	63.5/2.5
Coil material	Copper
Former material	Glass Fiber
Cone material	Paper
Surround material	Rubber
Gap height (mm/in)	10/0.39
Voice coil winding height(mm/in)	29.3/1.2
Chassis material	Aluminum

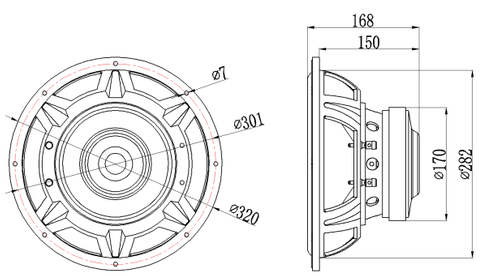
THIELE & SMALL PARAMETERS	
Fs(Hz)	35.9
Re(Ohm)	5.4
Qms	6.18
Qes	0.39
Qts	0.37
Vas(L)	39.5
Mms(gr)	176.8
Cms(mm/N)	0.11
BL(Tm)	23.4
Le(mH)	3.23
Xmax(mm)	9.65
η_0(%)	0.45
Sd(cm2)	499.6
Overall diameter(mm)	320
Bolt circle diameter(mm)	301
Baffle cut-out diameter(mm)	282
Overall depth(mm)	168
Net weight(kg)	7

· IEC power is measured with 6dB crest factor continuous pink noise in 100 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA1277N & WOOFER

- 900 Watt Max Power
- 75.8mm(3 inch) voice coil
- 50Hz to 3.5KHz frequency response
- 97 dB 1W@1m sensitivity
- Neodymium magnet structure

900 Power handling capacity(W)

75.8 Voice coil(mm)

97dB Sensitivity(1W@1m)

50-3.5K Frequency range (Hz)

LF Loudspeakers

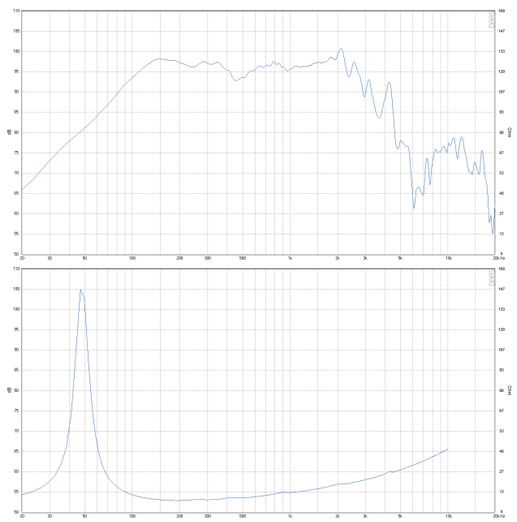
Specifications

Model	FA1277N
Nominal diameter(in)	12
Power handling capacity(W)	450
Max power(W)	900
Nominal impedance(Ohm)	8
Sensitivity(1W/1m)(dB)	97
Frequency range (Hz)	50—3500
Voice coil diameter (mm/in)	75.8/3
Coil material	CCAW
Former material	Glass Fiber
Cone material	Paper
Surround material	Polycotton
Gap height (mm/in)	15/0.59
Voice coil winding height(mm/in)	24.5/0.96
Chassis material	Aluminum

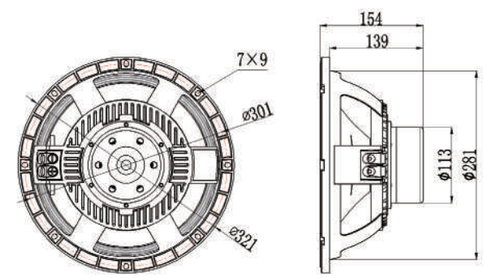
THIELE & SMALL PARAMETERS	
Fs(Hz)	53
Re(Ohm)	5.4
Qms	7.25
Qes	0.35
Qts	0.33
Vas(L)	53.9
Mms(gr)	70.9
Cms(mm/N)	0.127
BL(Tm)	19
Le(mH)	0.58
Xmax(mm)	4.75
η_0(%)	2.21
Sd(cm2)	547.4
Overall diameter(mm)	321
Bolt circle diameter(mm)	301
Baffle cut-out diameter(mm)	281
Overall depth(mm)	154
Net weight(kg)	4.5

· IEC power is measured with 6dB crest factor continuous pink noise in 100 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FB0320G & FULL RANGE

- 40 Watt Max Power
- 19.45mm(0.77inch)voice coil
- 115Hz to 20KHz frequency response
- 83 dB 1W@1m sensitivity
- Ferrite magnet structure

40	19.45
Power handling capacity(W)	Voice coil(mm)
83dB	**115-20K**
Sensitivity(1W@1m)	Frequency range (Hz)

LF Loudspeakers

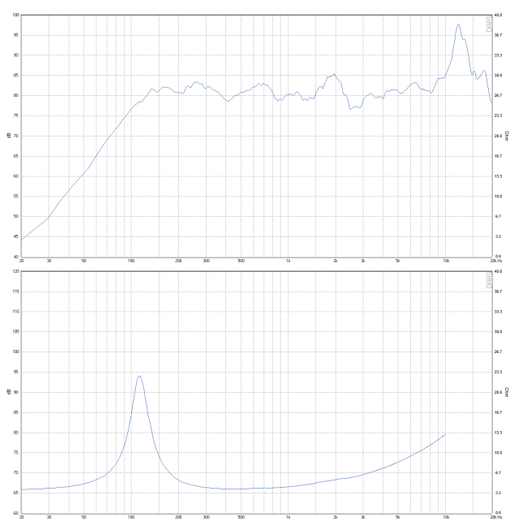
Specifications

Model	FB0320G
Nominal diameter(in)	3
Power handling capacity(W)	20
Max power(W)	40
Nominal impedance(Ohm)	4
Sensitivity(1W/1m)(dB)	83
Frequency range (Hz)	115-20000
Voice coil diameter (mm/in)	19.45/0.77
Coil material	Copper
Former material	Polyimide
Cone material	Paper
Surround material	Rubber
Gap height (mm/in)	4/0.16
Voice coil winding height(mm/in)	7.1/0.28
Chassis material	Steel

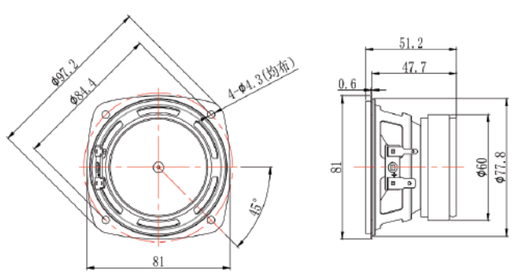
THIELE & SMALL PARAMETERS	
Fs(Hz)	116
Re(Ohm)	3.4
Qms	4.53
Qes	0.79
Qts	0.68
Vas(L)	0.6
Mms(gr)	3.85
Cms(mm/N)	0.5
BL(Tm)	3.47
Le(mH)	0.14
Xmax(mm)	1.55
η_0(%)	0.12
Sd(cm2)	29.7
Overall diameter(mm)	97.2
Bolt circle diameter(mm)	84.4
Baffle cut-out diameter(mm)	77.8
Overall depth(mm)	51.2
Net weight(kg)	0.4

· IEC power is measured with 6dB crest factor continuous pink noise in 100 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FB0526H & WOOFER

- 60 Watt Max Power
- 25.5mm(1 inch) voice coil
- 80Hz to 15KHz frequency response
- 85dB 1W@1m sensitivity
- Ferrite magnet structure

60	25.5
Power handling capacity(W)	Voice coil(mm)
85dB	**80-15K**
Sensitivity(1W@1m)	Frequency range (Hz)

LF Loudspeakers

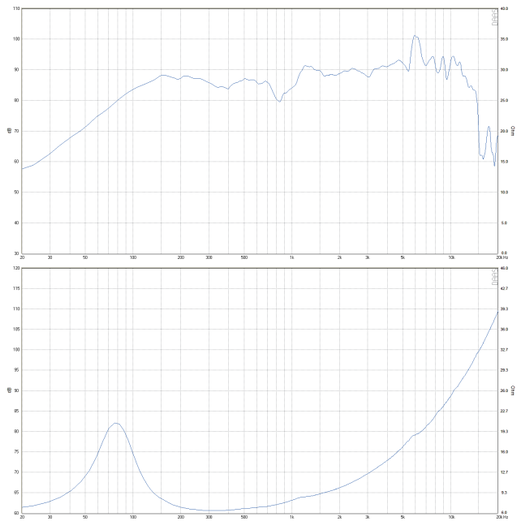
Specifications

Model	FB0526H
Nominal diameter(in)	5
Power handling capacity(W)	30
Max power(W)	60
Nominal impedance(Ohm)	8
Sensitivity(1W/1m)(dB)	85
Frequency range (Hz)	80—15000
Voice coil diameter (mm/in)	25.5/1
Coil material	Copper
Former material	Polyimide
Cone material	Fibreglass
Surround material	Rubber
Gap height (mm/in)	5/0.19
Voice coil winding height(mm/in)	9/0.35
Chassis material	Steel

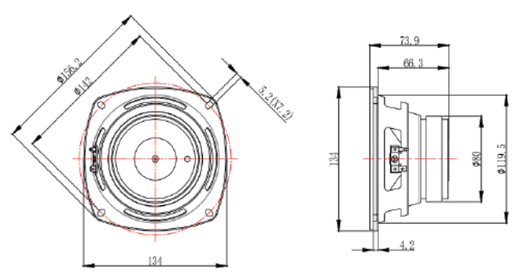
THIELE & SMALL PARAMETERS	
Fs(Hz)	78
Re(Ohm)	5.5
Qms	1.89
Qes	0.76
Qts	0.54
Vas(L)	4.9
Mms(gr)	10.36
Cms(mm/N)	0.4
BL(Tm)	6.05
Le(mH)	0.318
Xmax(mm)	2
η_0(%)	0.29
Sd(cm2)	92.5
Overall diameter(mm)	156.2
Bolt circle diameter(mm)	142
Baffle cut-out diameter(mm)	119.5
Overall depth(mm)	73.9
Net weight(kg)	0.9

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA0525H & WOOFER

- 80 Watt Max Power
- 25.5mm(1 inch) voice coil
- 60Hz to 5KHz frequency response
- 88 dB 1W@1m sensitivity
- Ferrite magnet structure

80 Power handling capacity(W)

25.5 Voice coil(mm)

88dB Sensitivity(1W@1m)

60-5K Frequency range (Hz)

LF Loudspeakers

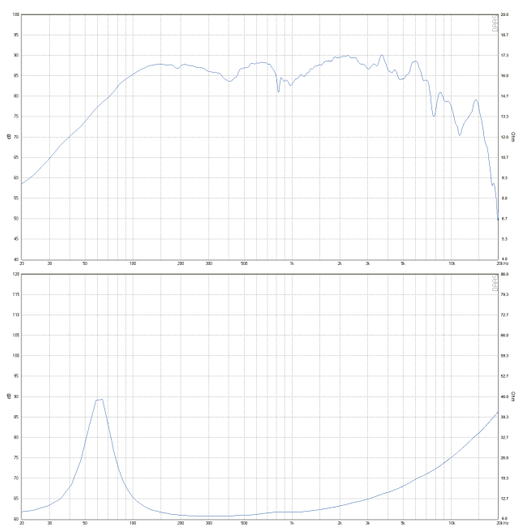
Specifications

Model	FA0525H
Nominal diameter(in)	5
Power handling capacity(W)	40
Max power(W)	80
Nominal impedance(Ohm)	8
Sensitivity(1W/1m)(dB)	88
Frequency range (Hz)	60-5000
Voice coil diameter (mm/in)	25.5/1
Coil material	Copper
Former material	Fibreglass
Cone material	PP
Surround material	Rubber
Gap height (mm/in)	6/0.24
Voice coil winding height(mm/in)	11.7/0.46
Chassis material	Aluminum

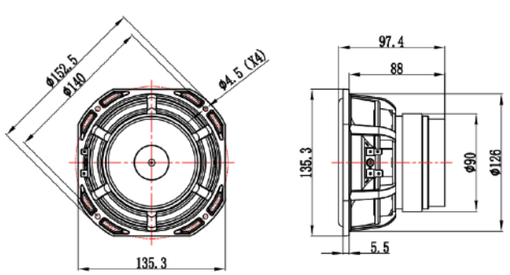
THIELE & SMALL PARAMETERS	
Fs(Hz)	63
Re(Ohm)	6.45
Qms	7.77
Qes	0.65
Qts	0.59
Vas(L)	7.3
Mms(gr)	10.86
Cms(mm/N)	0.59
BL(Tm)	6.55
Le(mH)	0.388
Xmax(mm)	2.85
η_0(%)	0.27
Sd(cm2)	93.3
Overall diameter(mm)	152.5
Bolt circle diameter(mm)	140
Baffle cut-out diameter(mm)	126
Overall depth(mm)	97.4
Net weight(kg)	1.6

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA0525G & WOOFER

- 80 Watt Max Power
- 25.5mm(1 inch) voice coil
- 60Hz to 5KHz frequency response
- 88dB 1W@1m sensitivity
- Ferrite magnet structure

80 Power handling capacity(W)

25.5 Voice coil(mm)

88dB Sensitivity(1W@1m)

60-5K Frequency range (Hz)

LF Loudspeakers

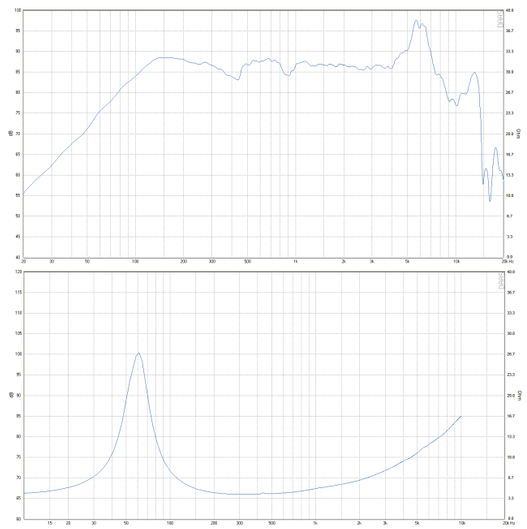
Specifications

Model	FA0525G
Nominal diameter(in)	5
Power handling capacity(W)	40
Max power(W)	80
Nominal impedance(Ohm)	4
Sensitivity(1W/1m)(dB)	88
Frequency range (Hz)	60—5000
Voice coil diameter (mm/in)	25.5/1
Coil material	Copper
Former material	Fibreglass
Cone material	Paper
Surround material	Rubber
Gap height (mm/in)	6/0.24
Voice coil winding height(mm/in)	11.7/0.46
Chassis material	Aluminum

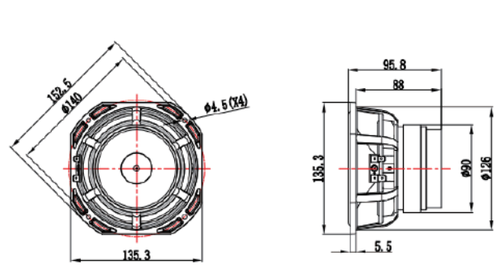
THIELE & SMALL PARAMETERS	
Fs(Hz)	61
Re(Ohm)	3.27
Qms	3.55
Qes	0.47
Qts	0.42
Vas(L)	8.5
Mms(gr)	10.14
Cms(mm/N)	0.67
BL(Tm)	5.19
Le(mH)	0.206
Xmax(mm)	2.85
η_0(%)	0.4
Sd(cm2)	95.1
Overall diameter(mm)	152.5
Bolt circle diameter(mm)	140
Baffle cut-out diameter(mm)	126
Overall depth(mm)	95.8
Net weight(kg)	1.5

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FB0638GN & WOOFER

- 160 Watt Max Power
- 38.6mm(1.5 inch) voice coil
- 60Hz to 8KHz frequency response
- 90 dB 1W@1m sensitivity
- Neodymium magnet structure

160	38.6
Power handling capacity(W)	Voice coil(mm)
90dB	60-8K
Sensitivity(1W@1m)	Frequency range (Hz)

LF Loudspeakers

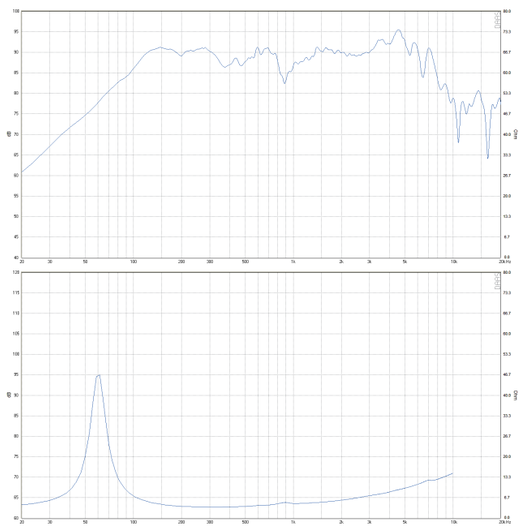
Specifications

Model	FB0638GN
Nominal diameter(in)	6.5
Power handling capacity(W)	80
Max power(W)	160
Nominal impedance(Ohm)	4
Sensitivity(1W/1m)(dB)	90
Frequency range (Hz)	60-8000
Voice coil diameter (mm/in)	38.6/1.5
Coil material	Aluminum
Former material	Polyimide
Cone material	Paper
Surround material	Rubber
Gap height (mm/in)	8/0.31
Voice coil winding height(mm/in)	11/0.43
Chassis material	Steel

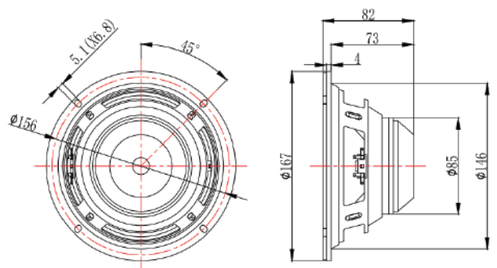
THIELE & SMALL PARAMETERS	
Fs(Hz)	60
Re(Ohm)	2.8
Qms	4.81
Qes	0.4
Qts	0.37
Vas(L)	11.9
Mms(gr)	16.3
Cms(mm/N)	0.46
BL(Tm)	6.6
Le(mH)	0.15
Xmax(mm)	2.5
η_0(%)	0.76
Sd(cm2)	141
Overall diameter(mm)	167
Bolt circle diameter(mm)	156
Baffle cut-out diameter(mm)	146
Overall depth(mm)	82
Net weight(kg)	1

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FB06538G & WOOFER

- 200 Watt Max Power
- 38.6mm(1.5 inch) voice coil
- 110Hz to 7KHz frequency response
- 91dB 1W@1m sensitivity
- Ferrite magnet structure

200	38.6
Power handling capacity(W)	Voice coil(mm)
91dB	110-7K
Sensitivity(1W@1m)	Frequency range (Hz)

LF Loudspeakers

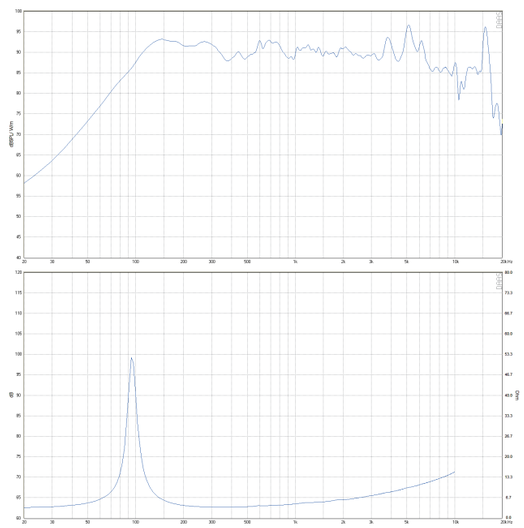
Specifications

Model	FB06538G
Nominal diameter(in)	6.5
Power handling capacity(W)	100
Max power(W)	200
Nominal impedance(Ohm)	4
Sensitivity(1W/1m)(dB)	91
Frequency range (Hz)	110—7000
Voice coil diameter (mm/in)	38.6/1.5
Coil material	Aluminum
Former material	Polyimide
Cone material	Paper
Surround material	Polycotton
Gap height (mm/in)	8/0.31
Voice coil winding height(mm/in)	11/0.43
Chassis material	Steel

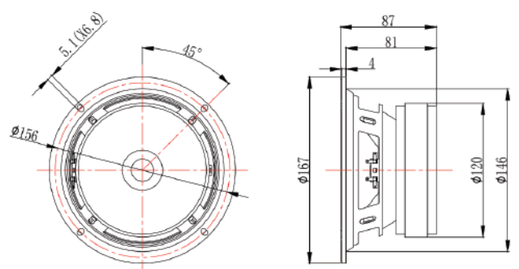
THIELE & SMALL PARAMETERS	
Fs(Hz)	110
Re(Ohm)	2.8
Qms	9.6
Qes	0.71
Qts	0.66
Vas(L)	5
Mms(gr)	12.3
Cms(mm/N)	0.23
BL(Tm)	5.8
Le(mH)	0.32
Xmax(mm)	2.5
η_0(%)	0.81
Sd(cm2)	143
Overall diameter(mm)	167
Bolt circle diameter(mm)	156
Baffle cut-out diameter(mm)	146
Overall depth(mm)	87
Net weight(kg)	2.2

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA18115HN & SUBWOOFER

- 2200 Watt Max Power
- 114.5mm(4.5 inch) voice coil
- 37Hz to 500Hz frequency response
- 96 dB 1W@1m sensitivity
- Neodymium magnet structure

2200 Power handling capacity(W)

114.5 Voice coil(mm)

96dB Sensitivity(1W@1m)

37-500 Frequency range (Hz)

LF Loudspeakers

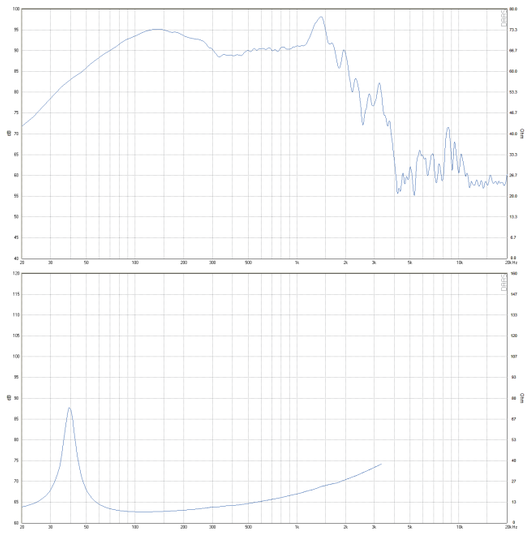
Specifications

Model	FA18115HN
Nominal diameter(in)	18
Power handling capacity(W)	1100
Max power(W)	2200
Nominal impedance(Ohm)	8
Sensitivity(1W/1m)(dB)	96
Frequency range (Hz)	37-500
Voice coil diameter (mm/in)	114.5/4.5
Coil material	Copper
Former material	Fibreglass
Cone material	Paper
Surround material	Polycotton
Gap height (mm/in)	14/0.55
Voice coil winding height(mm/in)	32.8/1.29
Chassis material	Aluminum

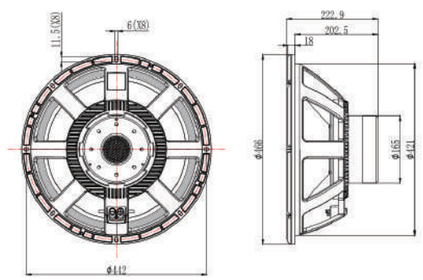
THIELE & SMALL PARAMETERS	
Fs(Hz)	37
Re(Ohm)	5.45
Qms	10.8
Qes	0.65
Qts	0.61
Vas(L)	139.6
Mms(gr)	266.5
Cms(mm/N)	0.69
BL(Tm)	22.8
Le(mH)	1.21
Xmax(mm)	9.4
η_0(%)	1.05
Sd(cm2)	1192
Overall diameter(mm)	466
Bolt circle diameter(mm)	442
Baffle cut-out diameter(mm)	421
Overall depth(mm)	222.9
Net weight(kg)	11.5

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FA21115G & SUBWOOFER

- 3000 Watt Max Power
- 114.5mm(4.5 inch) voice coil
- 26Hz to 500Hz frequency response
- 96dB 1W@1m sensitivity
- Ferrite magnet structure

3000 Power handling capacity(W)

114.5 Voice coil(mm)

96dB Sensitivity(1W@1m)

26-500 Frequency range (Hz)

LF Loudspeakers

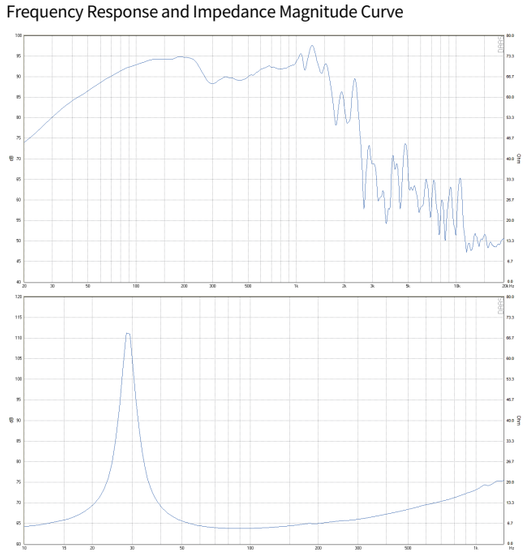
Specifications

Model	FA21115G
Nominal diameter(in)	21
Power handling capacity(W)	1500
Max power(W)	3000
Nominal impedance(Ohm)	4
Sensitivity(1W/1m)(dB)	96
Frequency range (Hz)	26—500
Voice coil diameter (mm/in)	114.5/4.5
Coil material	Copper
Former material	Fibreglass
Cone material	Paper
Surround material	Polycotton
Gap height (mm/in)	15/0.59
Voice coil winding height(mm/in)	30.9/1.22
Chassis material	Aluminum

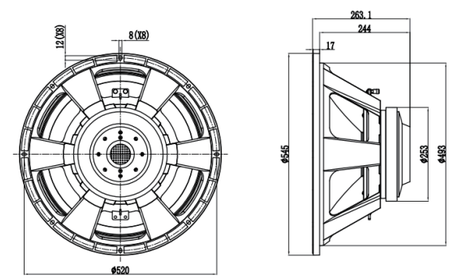
THIELE & SMALL PARAMETERS	
Fs(Hz)	28.7
Re(Ohm)	3.74
Qms	9.45
Qes	0.53
Qts	0.5
Vas(L)	289.7
Mms(gr)	427.2
Cms(mm/N)	0.72
BL(Tm)	23.3
Le(mH)	1.075
Xmax(mm)	7.95
η_0(%)	1.25
Sd(cm2)	1684
Overall diameter(mm)	545
Bolt circle diameter(mm)	520
Baffle cut-out diameter(mm)	493
Overall depth(mm)	263.1
Net weight(kg)	20.2

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2V and 4 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings



FB0850-2 & WOOFER

- 400 Watt Max Power
- 50.8mm(2 inch) voice coil
- 75Hz to 3500Hz frequency response
- 93dB 1W@1m sensitivity
- Ferrite magnet structure

400 Power handling capacity(W)

50.8 Voice coil(mm)

93dB Sensitivity(1W@1m)

75-3500 Frequency range (Hz)

LF Loudspeakers

Specifications

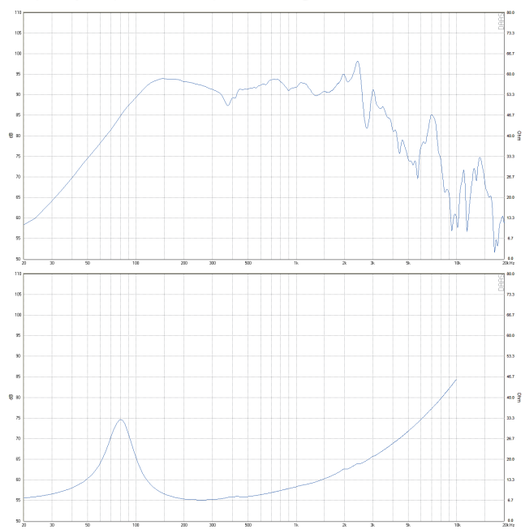
Model	FB0850-2
Nominal diameter(in)	8
Power handling capacity(W)	200
Max power(W)	400
Nominal impedance(Ohm)	8
Sensitivity(1W/1m)(dB)	93
Frequency range (Hz)	75—3500
Voice coil diameter (mm/in)	50.8/2
Coil material	Copper
Former material	Glass Fiber
Cone material	Paper
Surround material	Polycotton
Gap height (mm/in)	8/0.32
Voice coil winding height(mm/in)	18.8/0.74
Chassis material	Steel

THIELE & SMALL PARAMETERS	
Fs(Hz)	72
Re(Ohm)	5.3
Qms	2.38
Qes	0.49
Qts	0.4
Vas(L)	10.8
Mms(gr)	31.6
Cms(mm/N)	0.157
BL(Tm)	12.5
Le(mH)	0.678
Xmax(mm)	5.4
η_0(%)	0.79
Sd(cm2)	220.4

Overall diameter(mm)	209
Bolt circle diameter(mm)	198
Baffle cut-out diameter(mm)	184
Overall depth(mm)	111.8
Net weight(kg)	3.5

· EIA power is measured with 6dB crest factor continuous pink noise in 8 hours duration.
· Max power is defined as 3dB higher than the nominal rating.
· Sensitivity is measured as one meter at 2.83V and 8 ohm nominal impedance.
· All measurement of the speaker is done after a sufficient high level of 20Hz sine wave test.
· Xmax=[(Winding Depth-Magnetic Gap Depth)/2].

Frequency Response and Impedance Magnitude Curve



Dimension Drawings