



Vivid Acoustics

Coaxial Driver

PRODUCT SPECIFICATIONS

Vivid Acoustics Technology Co., Ltd.

2026



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Updated on 2026.1

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Company Profile

Software Capabilities

Established: Since Sep.2017

Industrial Background: Our core team brings over twenty years of professional experience in loudspeaker development and manufacturing. The chief engineer, an alumnus of OUC (one of China's most prestigious electro-acoustic institutions), has designed transducers for numerous international brands by combining academic expertise with practical experience.

Product Range: Pro Audio high-frequency compression drivers, low-frequency woofers and coaxial loudspeakers, etc.

Annual Yield: 240,000pcs woofers, 96,000pcs compression drivers and coaxial loudspeakers.

Area Occupied: 2,500 m² manufacturing facility

Certification: ISO/9001:2015 quality management system

Patents: 2 invention patents, 3 utility model patents, 3 design patents

Design Capabilities:Acoustics:

Comsol/FINEMotor/FEMM/Klippel/Clio

Mechanical: Auto-CAD/Pro-E/Solidworks

Graphic: Photoshop/AI/CorelDRAW

Production and QC:

Implementing full-process quality control with 100% online inspection to ensure zero defect outflow. All products are labeled and packaged according to customer specifications.

Facilities:

4-axis robot dispensing machine for precision compression driver assembly.

Automated production line for woofer manufacturing.

Experienced production supervisors with 15+ years in PA manufacturing, possessing exceptional process risk anticipation capabilities.

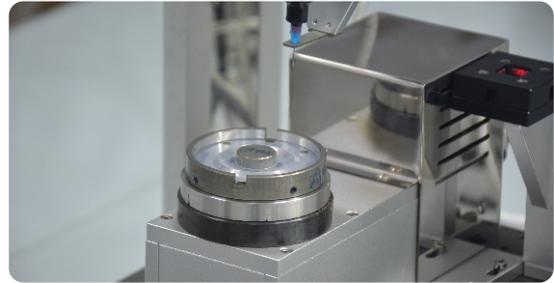




Facilities



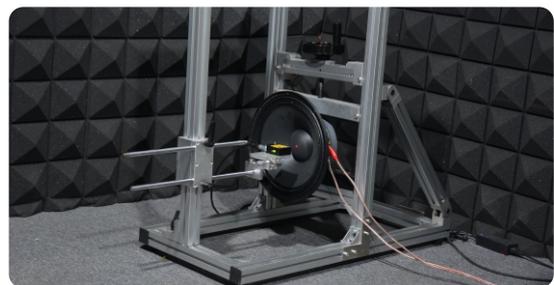
Compression Driver Production: Dispensing with four-axis Robot



LF Automatic Production: Computer-controlled Dispensing Machine



Anechoic Room and Test Device



Our company and designers



T05W44-8HCX

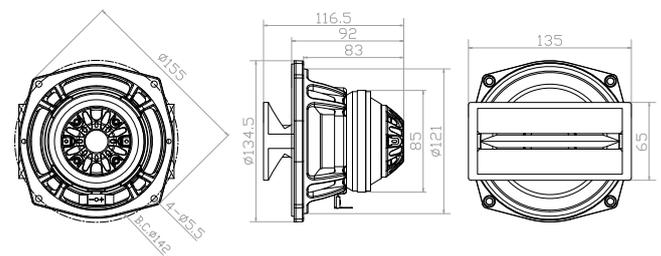
COAXIAL DRIVER



KEY FEATURES

- 91dB & 106dB 1W/1m sensitivity
- 150W & 25W AES power handling
- 110Hz-18kHz frequency response
- 44.2mm (1.7in) & 36mm (1.4in) voice coil
- Shared lightweight neodymium ring motor system
- Aluminum demodulating ring for lower distortion
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for line arrays and multiple sound sources systems

MECHANICAL DRAWING



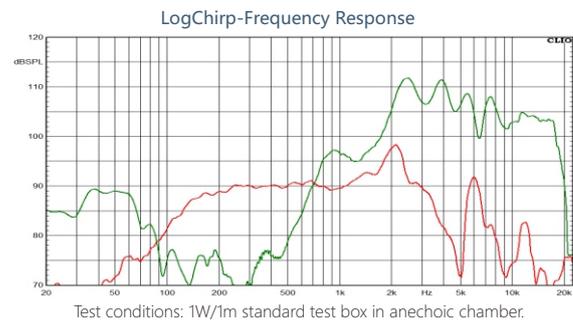
GENERAL SPECIFICATIONS

| | |
|--|--|
| Part Number | T05W44-8HCX |
| Nominal Diameter | 134.5mm (5in) |
| Nominal Impedance | LF : 8Ω HF : 8Ω |
| Minimum Impedance | LF : 6.0Ω at 500Hz HF : 7.6Ω at 4500Hz |
| AES Power Handling ¹ | LF : 150W HF : 25W |
| Maximum Power Handling ² | LF : 300W HF : 50W |
| (1W/1m) Sensivity (1W/1m) ³ | LF : 91dB HF : 106dB |
| Resonance Frequency | 110Hz |
| Recommended Crossover ⁴ | 2kHz |
| Frequency Range | LF : 110Hz-3kHz HF : 1.5kHz-18kHz |
| Voice Coil Diameter | LF : 44.2mm HF : 36mm |
| Winding Material | LF : Copper Clad Aluminum HF : Flat Aluminum |
| Former Material | LF : Glass Fiber HF : Kapton |
| Winding Depth | WF : 10.4mm TW : 2.5mm |
| Magnetic Gap Depth | LF : 6mm HF : 3mm |
| Xmax ⁵ | LF : 4.2mm |
| Flux Density | WF : 1.0T TW : 1.7T |
| Basket Material | Cast Aluminum |
| Magnet Material | LF&HF : Neodymium |
| Suspension Material | Fabric |
| Surround Material | M-Roll Cloth-sealed |
| Cone Material | Curvilinear Paper |
| Diaphragm Material | Polymer |
| Phase Plug Material | Plastic |
| Cover Material | Plastic |
| Net Weight | 1.18kg |

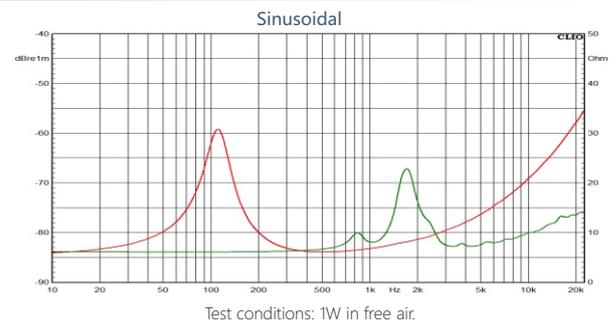
TS Parameters⁶

| | | | |
|-----|----------|-----------------|---------------------|
| Fs | 110Hz | Qms | 2.7 |
| Re | 5.0Ω | Qes | 0.51 |
| Le | 0.26mH | Qts | 0.43 |
| Mms | 7.9g | Vas | 2.7L |
| Mmd | 7.5g | Ref. Efficiency | 0.7% |
| Cms | 0.26mm/N | Sd | 86.6cm ² |
| BL | 7.3Tm | EBP | 215Hz |

FREQUENCY RESPONSE CURVE



IMPEDANCE CURVE



NOTES

1. Two hours test according to AES 2-1984 Rev. 2003.
Power calculated on rated minimum impedance.
2. Maximum power is defined as 3dB greater than Nominal power.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. 12 dB/oct. or higher slope high-pass filter.
5. $X_{max} = [(winding\ depth - magnetic\ gap\ depth) / 2] + (magnetic\ gap\ depth / 3)$.
6. Thiele-Small parameters are measured after a preconditioning test.
7. Woofer power test made with continuous pink noise signal within the frequency range. Compression driver power test made with continuous pink noise signal within the range from the recommended crossover frequency to 20kHz.



T05W44-8PN

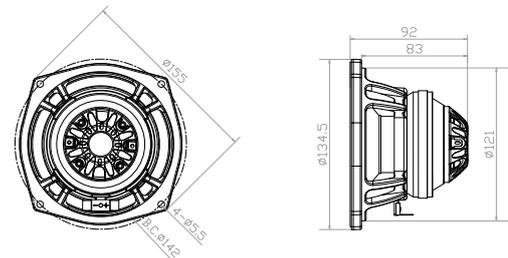
COAXIAL DRIVER



KEY FEATURES

- 88dB & 105dB 1W/1m sensitivity
- 150W & 25W AES power handling
- 75Hz-18kHz frequency response
- 44.2mm (1.7in) & 36mm (1.4in) voice coil
- Shared lightweight neodymium ring motor system
- Aluminum demodulating ring for lower distortion
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for multiple sound sources systems and compact systems

MECHANICAL DRAWING



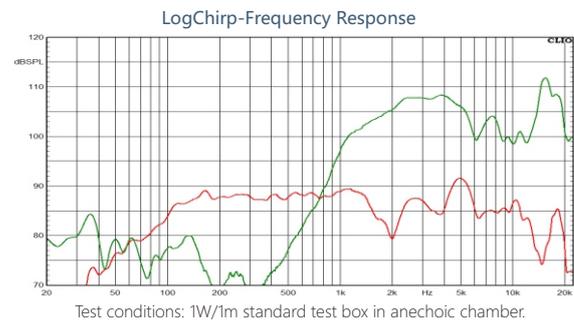
GENERAL SPECIFICATIONS

| | |
|--|--|
| Part Number | T05W44-8PN |
| Nominal Diameter | 134.5mm (5in) |
| Nominal Impedance | LF : 8Ω HF : 8Ω |
| Minimum Impedance | LF : 5.8Ω at 400Hz HF : 7.1Ω at 4000Hz |
| AES Power Handling ¹ | LF : 150W HF : 25W |
| Maximum Power Handling ² | LF : 300W HF : 50W |
| (1W/1m) Sensivity (1W/1m) ³ | LF : 88dB HF : 105dB |
| Resonance Frequency | 75Hz |
| Recommended Crossover ⁴ | 2kHz |
| Frequency Range | LF : 75Hz-2kHz HF : 1.5kHz-18kHz |
| Voice Coil Diameter | LF : 44.2mm HF : 36mm |
| Winding Material | LF : Copper Clad Aluminum HF : Flat Aluminum |
| Former Material | LF : Glass Fiber HF : Kapton |
| Winding Depth | WF : 14.2mm TW : 2.5mm |
| Magnetic Gap Depth | LF : 6mm HF : 3mm |
| Xmax ⁵ | LF : 6.1mm |
| Flux Density | WF : 1.0T TW : 1.7T |
| Basket Material | Cast Aluminum |
| Magnet Material | LF&HF : Neodymium |
| Suspension Material | Fabric |
| Surround Material | Half-Roll Rubber |
| Cone Material | Curvilinear Paper |
| Diaphragm Material | Polymer |
| Phase Plug Material | Plastic |
| Cover Material | Plastic |
| Net Weight | 1.06kg |

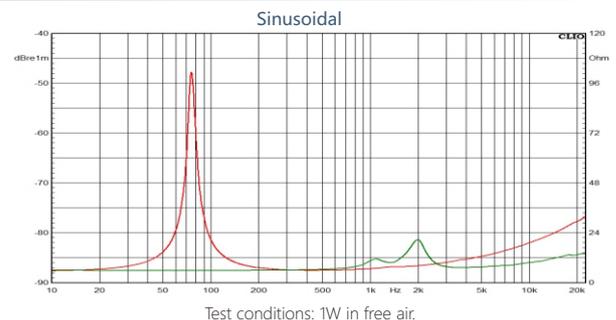
TS Parameters⁶

| | | | |
|-----|----------|-----------------|---------------------|
| Fs | 75Hz | Qms | 8.6 |
| Re | 5.0Ω | Qes | 0.44 |
| Le | 0.24mH | Qts | 0.42 |
| Mms | 12.6g | Vas | 3.7L |
| Mmd | 12.1g | Ref. Efficiency | 0.34% |
| Cms | 0.35mm/N | Sd | 86.6cm ² |
| BL | 8.2Tm | EBP | 178Hz |

FREQUENCY RESPONSE CURVE



IMPEDANCE CURVE



NOTES

- Two hours test according to AES 2-1984 Rev. 2003.
Power calculated on rated minimum impedance.
- Maximum power is defined as 3dB greater than Nominal power.
- Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
- 12 dB/oct. or higher slope high-pass filter.
- $X_{max} = [(winding\ depth - magnetic\ gap\ depth) / 2] + (magnetic\ gap\ depth / 3)$.
- Thiele-Small parameters are measured after a preconditioning test.
- Woofer power test made with continuous pink noise signal within the frequency range. Compression driver power test made with continuous pink noise signal within the range from the recommended crossover frequency to 20kHz.



T06W38-8HC

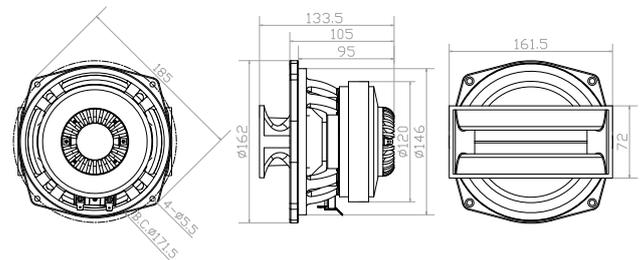
COAXIAL DRIVER



KEY FEATURES

- 93dB & 106dB 1W/1m sensitivity
- 120W & 30W AES power handling
- 85Hz-18kHz frequency response
- 38.5mm (1.5in) & 38mm (1.5in) voice coil
- Shared ferrite motor system
- Aluminum demodulating ring for lower distortion
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for line arrays and multiple sound sources systems

MECHANICAL DRAWING



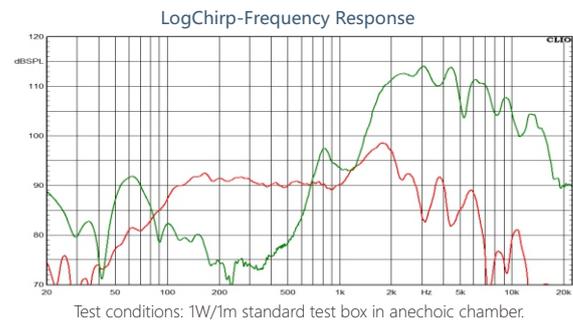
GENERAL SPECIFICATIONS

| | |
|--|--|
| Part Number | T06W38-8HC |
| Nominal Diameter | 162mm (6in) |
| Nominal Impedance | LF : 8Ω HF : 8Ω |
| Minimum Impedance | LF : 6.4Ω at 400Hz HF : 7.8Ω at 4000Hz |
| AES Power Handling ¹ | LF : 120W HF : 30W |
| Maximum Power Handling ² | LF : 240W HF : 60W |
| (1W/1m) Sensivity (1W/1m) ³ | LF : 93dB HF : 106dB |
| Resonance Frequency | 85Hz |
| Recommended Crossover ⁴ | 2kHz |
| Frequency Range | LF : 85Hz-3kHz HF : 1.5kHz-18kHz |
| Voice Coil Diameter | LF : 38.5mm HF : 38mm |
| Winding Material | LF&HF : Copper Clad Aluminum |
| Former Material | LF : Glass Fiber HF : Kapton |
| Winding Depth | WF : 9.8mm TW : 2.4mm |
| Magnetic Gap Depth | LF : 7mm HF : 2.8mm |
| Xmax ⁵ | LF : 3.7mm |
| Flux Density | WF : 0.95T TW : 1.7T |
| Basket Material | Cast Aluminum |
| Magnet Material | LF&HF : Ferrite |
| Suspension Material | Fabric |
| Surround Material | M-Roll Cloth-sealed |
| Cone Material | Curvilinear Paper |
| Diaphragm Material | Polymer |
| Phase Plug Material | Plastic |
| Cover Material | Plastic |
| Net Weight | 2.7kg |

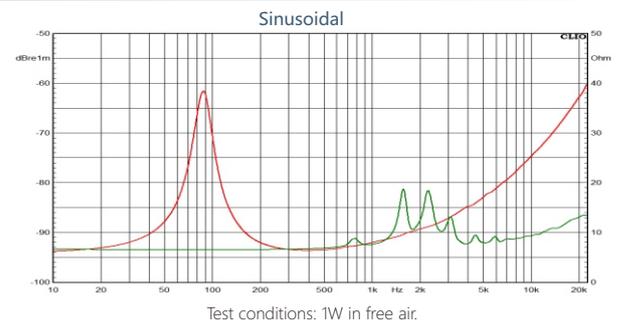
TS Parameters⁶

| | | | |
|-----|----------|-----------------|--------------------|
| Fs | 87Hz | Qms | 3.3 |
| Re | 5.0Ω | Qes | 0.49 |
| Le | 0.30mH | Qts | 0.43 |
| Mms | 10.2g | Vas | 9.2L |
| Mmd | 9.2g | Ref. Efficiency | 1.2% |
| Cms | 0.32mm/N | Sd | 143cm ² |
| BL | 7.5Tm | EBP | 177Hz |

FREQUENCY RESPONSE CURVE



IMPEDANCE CURVE



NOTES

1. Two hours test according to AES 2-1984 Rev. 2003.
Power calculated on rated minimum impedance.
2. Maximum power is defined as 3dB greater than Nominal power.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. 12 dB/oct. or higher slope high-pass filter.
5. $X_{max} = [(winding\ depth - magnetic\ gap\ depth) / 2] + (magnetic\ gap\ depth / 3)$.
6. Thiele-Small parameters are measured after a preconditioning test.
7. Woofer power test made with continuous pink noise signal within the frequency range. Compression driver power test made with continuous pink noise signal within the range from the recommended crossover frequency to 20kHz.



T06W44-8HC

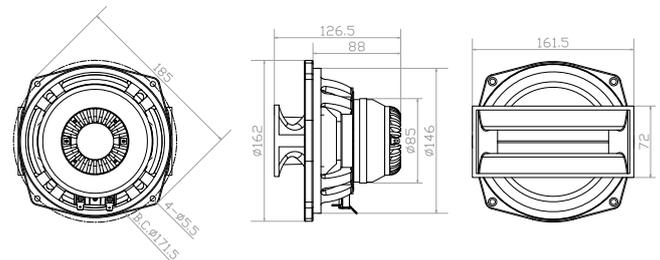
COAXIAL DRIVER



KEY FEATURES

- 94dB & 106dB 1W/1m sensitivity
- 150W & 30W AES power handling
- 85Hz-18kHz frequency response
- 44.2mm (1.7in) & 38mm (1.5in) voice coil
- Shared lightweight neodymium ring motor system
- Aluminum demodulating ring for lower distortion
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for line arrays and multiple sound sources systems

MECHANICAL DRAWING



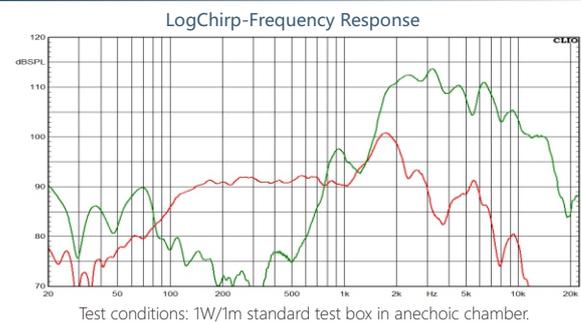
GENERAL SPECIFICATIONS

| | |
|--|--|
| Part Number | T06W44-8HC |
| Nominal Diameter | 162mm (6in) |
| Nominal Impedance | LF : 8Ω HF : 8Ω |
| Minimum Impedance | LF : 5.9Ω at 400Hz HF : 7.6Ω at 4000Hz |
| AES Power Handling ¹ | LF : 150W HF : 30W |
| Maximum Power Handling ² | LF : 300W HF : 60W |
| (1W/1m) Sensivity (1W/1m) ³ | LF : 94dB HF : 106dB |
| Resonance Frequency | 85Hz |
| Recommended Crossover ⁴ | 2kHz |
| Frequency Range | LF : 85Hz-3kHz HF : 1.5kHz-18kHz |
| Voice Coil Diameter | LF : 44.2mm HF : 38mm |
| Winding Material | LF&HF : Copper Clad Aluminum |
| Former Material | LF : Glass Fiber HF : Kapton |
| Winding Depth | WF : 10.4mm TW : 2.4mm |
| Magnetic Gap Depth | LF : 6mm HF : 2.8mm |
| Xmax ⁵ | LF : 5.2mm |
| Flux Density | WF : 1.15T TW : 1.6T |
| Basket Material | Cast Aluminum |
| Magnet Material | LF&HF : Neodymium |
| Suspension Material | Fabric |
| Surround Material | M-Roll Cloth-sealed |
| Cone Material | Curvilinear Paper |
| Diaphragm Material | Polymer |
| Phase Plug Material | Plastic |
| Cover Material | Plastic |
| Net Weight | 1.46kg |

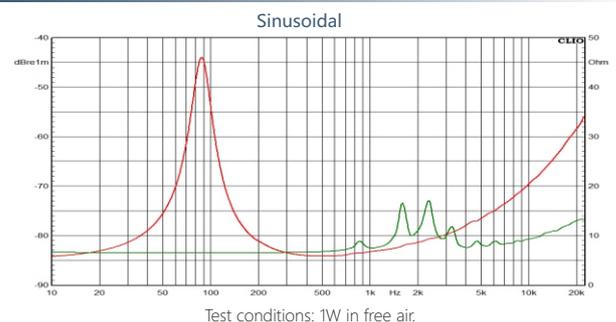
TS Parameters⁶

| | | | |
|-----|----------|-----------------|--------------------|
| Fs | 87Hz | Qms | 3.2 |
| Re | 5.0Ω | Qes | 0.39 |
| Le | 0.26mH | Qts | 0.34 |
| Mms | 11.7g | Vas | 8.1L |
| Mmd | 10.7g | Ref. Efficiency | 1.3% |
| Cms | 0.28mm/N | Sd | 143cm ² |
| BL | 9.1Tm | EBP | 223Hz |

FREQUENCY RESPONSE CURVE



IMPEDANCE CURVE



NOTES

1. Two hours test according to AES 2-1984 Rev. 2003.
Power calculated on rated minimum impedance.
2. Maximum power is defined as 3dB greater than Nominal power.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. 12 dB/oct. or higher slope high-pass filter.
5. $X_{max} = [(winding\ depth - magnetic\ gap\ depth) / 2] + (magnetic\ gap\ depth / 3)$.
6. Thiele-Small parameters are measured after a preconditioning test.
7. Woofer power test made with continuous pink noise signal within the frequency range. Compression driver power test made with continuous pink noise signal within the range from the recommended crossover frequency to 20kHz.



T06W44-8HCX

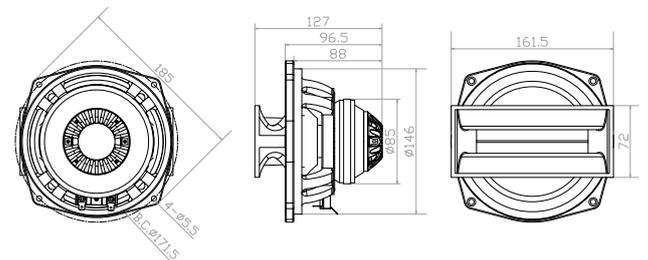
COAXIAL DRIVER



KEY FEATURES

- 94dB & 106dB 1W/1m sensitivity
- 150W & 25W AES power handling
- 85Hz-18kHz frequency response
- 44.2mm (1.7in) & 36mm (1.4in) voice coil
- Shared lightweight neodymium ring motor system
- Aluminum demodulating ring for lower distortion
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for line arrays and multiple sound sources systems

MECHANICAL DRAWING



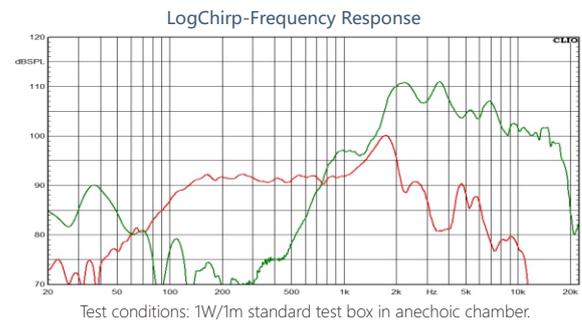
GENERAL SPECIFICATIONS

| | |
|--|--|
| Part Number | T06W44-8HCX |
| Nominal Diameter | 162mm (6in) |
| Nominal Impedance | LF : 8Ω HF : 8Ω |
| Minimum Impedance | LF : 5.8Ω at 400Hz HF : 7.5Ω at 4000Hz |
| AES Power Handling ¹ | LF : 150W HF : 25W |
| Maximum Power Handling ² | LF : 300W HF : 50W |
| (1W/1m) Sensivity (1W/1m) ³ | LF : 94dB HF : 106dB |
| Resonance Frequency | 85Hz |
| Recommended Crossover ⁴ | 2kHz |
| Frequency Range | LF : 85Hz-3kHz HF : 1.5kHz-18kHz |
| Voice Coil Diameter | LF : 44.2mm HF : 36mm |
| Winding Material | LF : Copper Clad Aluminum HF : Flat Aluminum |
| Former Material | LF : Glass Fiber HF : Kapton |
| Winding Depth | WF : 14.2mm TW : 2.5mm |
| Magnetic Gap Depth | LF : 6mm HF : 3mm |
| Xmax ⁵ | LF : 6.1mm |
| Flux Density | WF : 1.0T TW : 1.7T |
| Basket Material | Cast Aluminum |
| Magnet Material | LF&HF : Neodymium |
| Suspension Material | Fabric |
| Surround Material | M-Roll Cloth-sealed |
| Cone Material | Curvilinear Paper |
| Diaphragm Material | Polymer |
| Phase Plug Material | Plastic |
| Cover Material | Plastic |
| Net Weight | 1.36kg |

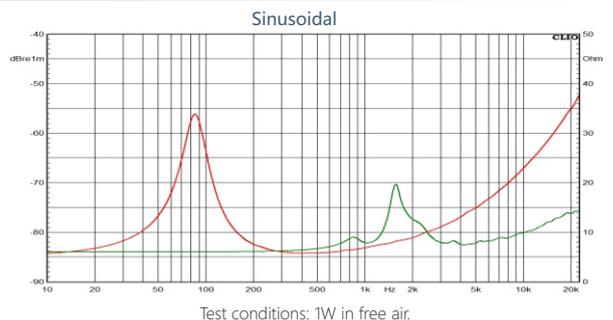
TS Parameters⁶

| | | | |
|-----|----------|-----------------|--------------------|
| Fs | 85Hz | Qms | 2.8 |
| Re | 5.0Ω | Qes | 0.47 |
| Le | 0.29mH | Qts | 0.40 |
| Mms | 10.2g | Vas | 9.9L |
| Mmd | 9.2g | Ref. Efficiency | 1.2% |
| Cms | 0.34mm/N | Sd | 143cm ² |
| BL | 7.6Tm | EBP | 180Hz |

FREQUENCY RESPONSE CURVE



IMPEDANCE CURVE



NOTES

1. Two hours test according to AES 2-1984 Rev. 2003.
Power calculated on rated minimum impedance.
2. Maximum power is defined as 3dB greater than Nominal power.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. 12 dB/oct. or higher slope high-pass filter.
5. $X_{max} = [(winding\ depth - magnetic\ gap\ depth) / 2] + (magnetic\ gap\ depth / 3)$.
6. Thiele-Small parameters are measured after a preconditioning test.
7. Woofer power test made with continuous pink noise signal within the frequency range. Compression driver power test made with continuous pink noise signal within the range from the recommended crossover frequency to 20kHz.



T08W50-8LC

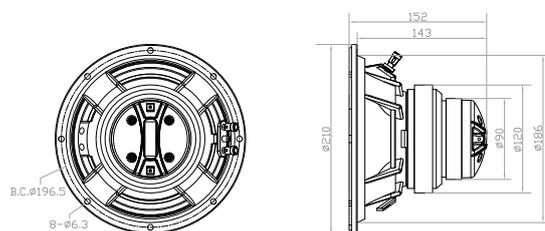
COAXIAL DRIVER



KEY FEATURES

- 93dB & 105dB 1W/1m sensitivity
- 200W & 25W AES power handling
- 60Hz-20kHz frequency response
- 49.55mm (2.0in) & 36mm (1.4in) voice coil
- Special waterproof treatment front side
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for multiple sound sources systems and compact systems

MECHANICAL DRAWING



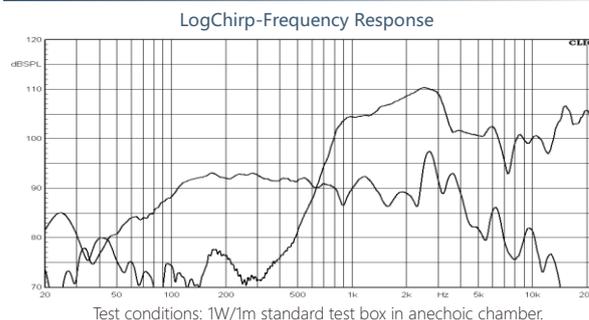
GENERAL SPECIFICATIONS

| | |
|--|--|
| Part Number | T08W50-8LC |
| Nominal Diameter | 210mm (8in) |
| Nominal Impedance | LF : 8Ω HF : 8Ω |
| Minimum Impedance | LF : 6.7Ω at 300Hz HF : 7.2Ω at 5300Hz |
| AES Power Handling ¹ | LF : 200W HF : 25W |
| Maximum Power Handling ² | LF : 400W HF : 50W |
| (1W/1m) Sensivity (1W/1m) ³ | LF : 93dB HF : 105dB |
| Resonance Frequency | 60Hz |
| Recommended Crossover ⁴ | 2kHz |
| Frequency Range | LF : 60Hz-3kHz HF : 1.2kHz-20kHz |
| Voice Coil Diameter | LF : 49.55mm HF : 36mm |
| Winding Material | LF : Copper HF : Flat Aluminum |
| Former Material | LF : Polyimide HF : Kapton |
| Winding Depth | LF : 12.6mm HF : 2.5mm |
| Magnetic Gap Depth | LF : 8mm HF : 3mm |
| Xmax ⁵ | LF : 4.9mm |
| Flux Density | LF : 0.9T HF : 1.65T |
| Basket Material | Cast Aluminum |
| Magnet Material | LF&HF : Ferrite |
| Suspension Material | Fabric |
| Surround Material | M-Roll Cloth-sealed |
| Cone Material | Curvilinear Paper |
| Diaphragm Material | Polymer |
| Phase Plug Material | Plastic |
| Cover Material | Plastic |
| Net Weight | 3.5kg |

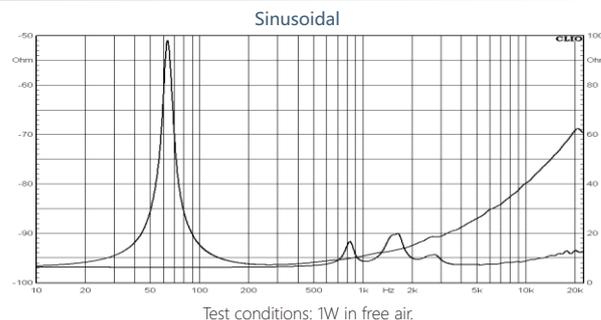
TS Parameters⁶

| | | | |
|-----|----------|-----------------|--------------------|
| Fs | 63Hz | Qms | 6.9 |
| Re | 5.6Ω | Qes | 0.41 |
| Le | 0.51mH | Qts | 0.39 |
| Mms | 23g | Vas | 20L |
| Mmd | 21g | Ref. Efficiency | 1.2% |
| Cms | 0.28mm/N | Sd | 227cm ² |
| BL | 11Tm | EBP | 154Hz |

FREQUENCY RESPONSE CURVE



IMPEDANCE CURVE



NOTES

1. Two hours test according to AES 2-1984 Rev. 2003.
Power calculated on rated minimum impedance.
2. Maximum power is defined as 3dB greater than Nominal power.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. 12 dB/oct. or higher slope high-pass filter.
5. Xmax=[(winding depth-magnetic gap depth)/2]+(magnetic gap depth/3).
6. Thiele-Small parameters are measured after a preconditioning test.
7. Woofer power test made with continuous pink noise signal within the frequency range.Compression driver power test made with continuous pink noise signal within the range from the recommended crossover frequency to 20kHz.



T10W65-8LC

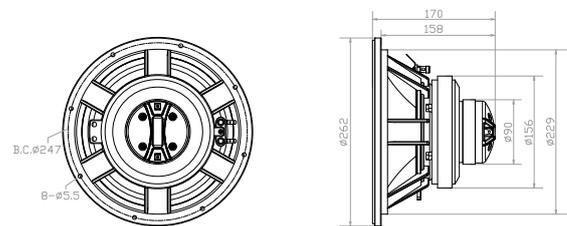
COAXIAL DRIVER



KEY FEATURES

- 95dB & 106dB 1W/1m sensitivity
- 250W & 25W AES power handling
- 55Hz-20kHz frequency response
- 63.8mm (2.5in) & 36mm (1.4in) voice coil
- Special waterproof treatment front side
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for multiple sound sources systems and compact systems

MECHANICAL DRAWING



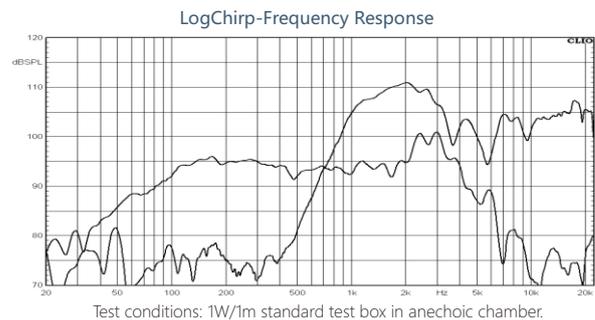
GENERAL SPECIFICATIONS

| | |
|--|--|
| Part Number | T10W65-8LC |
| Nominal Diameter | 262mm (10in) |
| Nominal Impedance | LF : 8Ω HF : 8Ω |
| Minimum Impedance | LF : 6.2Ω at 300Hz HF : 7.1Ω at 5000Hz |
| AES Power Handling ¹ | LF : 250W HF : 25W |
| Maximum Power Handling ² | LF : 500W HF : 50W |
| (1W/1m) Sensivity (1W/1m) ³ | LF : 95dB HF : 106dB |
| Resonance Frequency | 55Hz |
| Recommended Crossover ⁴ | 2kHz |
| Frequency Range | LF : 55Hz-3kHz HF : 1.2kHz-20kHz |
| Voice Coil Diameter | LF : 63.8mm HF : 36mm |
| Winding Material | LF : Copper Clad Aluminum HF : Flat Aluminum |
| Former Material | LF : Glass Fiber HF : Kapton |
| Winding Depth | LF : 15.5mm HF : 2.5mm |
| Magnetic Gap Depth | LF : 8mm HF : 3mm |
| Xmax ⁵ | LF : 6.4mm |
| Flux Density | LF : 1.05T HF : 1.65T |
| Basket Material | Cast Aluminum |
| Magnet Material | LF&HF : Ferrite |
| Suspension Material | Fabric |
| Surround Material | M-Roll Cloth-sealed |
| Cone Material | Curvilinear Paper |
| Diaphragm Material | Polymer |
| Phase Plug Material | Plastic |
| Cover Material | Plastic |
| Net Weight | 5.3kg |

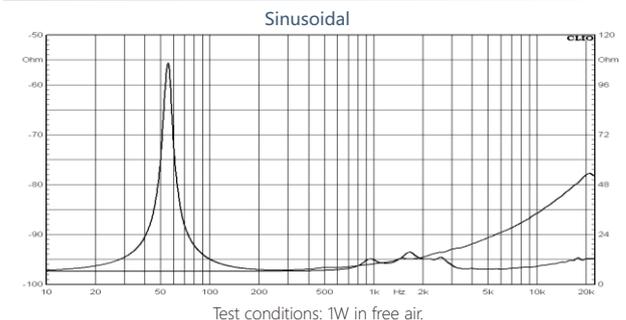
TS Parameters⁶

| | | | |
|-----|----------|-----------------|--------------------|
| Fs | 55Hz | Qms | 8.3 |
| Re | 5.1Ω | Qes | 0.36 |
| Le | 0.42mH | Qts | 0.34 |
| Mms | 39g | Vas | 35L |
| Mmd | 35g | Ref. Efficiency | 1.6% |
| Cms | 0.21mm/N | Sd | 346cm ² |
| BL | 13.6Tm | EBP | 153Hz |

FREQUENCY RESPONSE CURVE



IMPEDANCE CURVE



NOTES

1. Two hours test according to AES 2-1984 Rev. 2003.
Power calculated on rated minimum impedance.
2. Maximum power is defined as 3dB greater than Nominal power.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. 12 dB/oct. or higher slope high-pass filter.
5. Xmax=[(winding depth-magnetic gap depth)/2]+(magnetic gap depth/3).
6. Thiele-Small parameters are measured after a preconditioning test.
7. Woofer power test made with continuous pink noise signal within the frequency range. Compression driver power test made with continuous pink noise signal within the range from the recommended crossover frequency to 20kHz.



T12W75-8LC

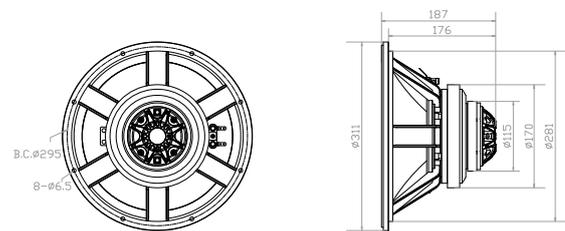
COAXIAL DRIVER



KEY FEATURES

- 96dB & 105dB 1W/1m sensitivity
- 350W & 50W AES power handling
- 50Hz-20kHz frequency response
- 75.55mm (3.5in) & 44.4mm (1.7in) voice coil
- Special waterproof treatment front side
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for multiple sound sources systems and compact systems

MECHANICAL DRAWING



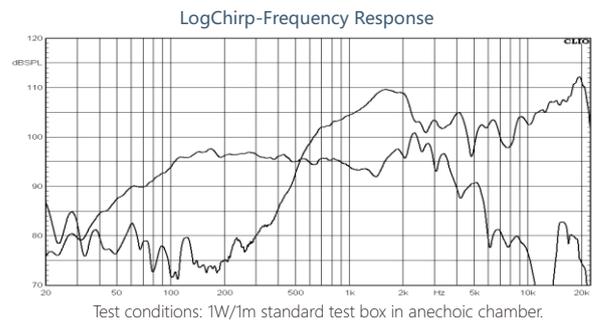
GENERAL SPECIFICATIONS

| | |
|--|--|
| Part Number | T12W75-8LC |
| Nominal Diameter | 311mm (12in) |
| Nominal Impedance | LF : 8Ω HF : 8Ω |
| Minimum Impedance | LF : 6.7Ω at 250Hz HF : 7.7Ω at 3500Hz |
| AES Power Handling ¹ | LF : 350W HF : 50W |
| Maximum Power Handling ² | LF : 700W HF : 100W |
| (1W/1m) Sensivity (1W/1m) ³ | LF : 96dB HF : 105dB |
| Resonance Frequency | 50Hz |
| Recommended Crossover ⁴ | 1.5kHz |
| Frequency Range | LF : 50Hz-3kHz HF : 1.0kHz-20kHz |
| Voice Coil Diameter | LF : 75.55mm HF : 44.4mm |
| Winding Material | LF : Copper Clad Aluminum HF : Flat Aluminum |
| Former Material | LF : Glass Fiber HF : Kapton |
| Winding Depth | LF : 16.4mm HF : 2.3mm |
| Magnetic Gap Depth | LF : 10mm HF : 2.5mm |
| Xmax ⁵ | LF : 6.5mm |
| Flux Density | LF : 1.05T HF : 1.5T |
| Basket Material | Cast Aluminum |
| Magnet Material | LF&HF : Ferrite |
| Suspension Material | Fabric |
| Surround Material | M-Roll Cloth-sealed |
| Cone Material | Curvilinear Paper |
| Diaphragm Material | Polymer |
| Phase Plug Material | Plastic |
| Cover Material | Cast Aluminum |
| Net Weight | 7.1kg |

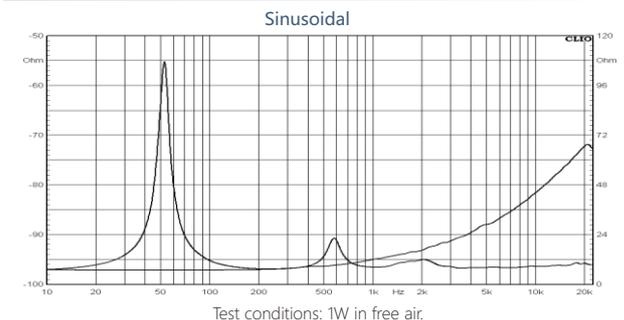
TS Parameters⁶

| | | | |
|-----|----------|-----------------|--------------------|
| Fs | 53Hz | Qms | 9.7 |
| Re | 5.6Ω | Qes | 0.40 |
| Le | 0.56mH | Qts | 0.38 |
| Mms | 54g | Vas | 70L |
| Mmd | 46g | Ref. Efficiency | 2.5% |
| Cms | 0.16mm/N | Sd | 551cm ² |
| BL | 15.8Tm | EBP | 133Hz |

FREQUENCY RESPONSE CURVE



IMPEDANCE CURVE



NOTES

1. Two hours test according to AES 2-1984 Rev. 2003.
Power calculated on rated minimum impedance.
2. Maximum power is defined as 3dB greater than Nominal power.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. 12 dB/oct. or higher slope high-pass filter.
5. Xmax=[(winding depth-magnetic gap depth)/2]+(magnetic gap depth/3).
6. Thiele-Small parameters are measured after a preconditioning test.
7. Woofer power test made with continuous pink noise signal within the frequency range. Compression driver power test made with continuous pink noise signal within the range from the recommended crossover frequency to 20kHz.



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