

MB12N405 MID - BASS

DESCRIPTION

The MB12N405 is a hypervented neo midbass design with a linear frequency response and very high efficiency.

To get this performance the magnetic structure use a high flux neo disc and the cone assembly a fibre loaded exponential shape along with a high excursion triple roll, constant geometry surround. The fibreglass former and aluminium voice coil provide a very high power handling maintaining a light mass and a proper Q factor for bass alignment.



FEATURES

- 4-inch, fibreglass inside/outside aluminium voice coil
- 2000W continuous program power handling
- 98.5 dB Sensitivity
- 50 Hz 2 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Triple roll surround and exponential cone geometry



TECHNICAL SPECIFICATIONS

General specifications Nominal Diameter: 12 inch / 305 mm Rated Impedance: 8 ohm Program Power (watt): 2000 W Power handling capacity: 985 dB Sensitivity: 985 dB Sensitivity: 985 dB Effective piston diameter: 2000 H2 Effective piston diameter: 2000 H2 Minimum Impedance (ohm): 6.6 ohm Voice Coil Diameter: 4.0 inch / 102 mm Voice Coil Diameter: 4.0 inch / 102 mm Voice Coil Diameter: 4.0 inch / 102 mm Voice Coil Diameter: 20 mm / 0.79 inch Number of layers: 2 Top Plate Thickness: 12 mm/ 0.47 inch Cone Dasign: Curved Surround Design: Curved Surround Design: Suround Design: Surround Design: Suround Design: Poperter: Single Thele - small parameters Resonance frequency (Fs): Spider: Single Thele - small parameters Resonance frequency (Fs): Spider: Single Diffective informations 0.00 ohm Mechanical factor: 0.00 ohm Total factor: 0.20 oks Bl factor (B) (T x m): 23.50 T x m		-	
Program Power (watt):2000 WPower handling capacity:1000 WPower handling capacity:985 dBSensitivity:985 dBFrequency range:50 - 2000 H2Effective piston diameter:260 mm / 10.24 inchMax. Excursion Before Damage:53 mm / 2.09 inchMinimum Impedance (ohm):6.6 chmVoice Coil Diameter:4.0 inch / 102 mmVoice Coil Diameter:4.0 inch / 102 mmVoice Coil Diameter:20 mm / 0.79 inchNumber of Tayers:2Kind of layers:1.0 mm / 0.79 inchNumber of Tayers:2Kind of Layers:1.0 mm / 0.47 inchCane Dasign:CurvedSurround Material:PolycotonSurround Material:PolycotonSurround Material:Surround Material:Hypervented magnetic structure:YesSpicker:SingeThiele - small parametersResonance frequency (Fs):Spicker:5.00 ohmMechanical factor:0.20 oksBi factor (B) (Ct xm):23.00 mmMechanical factor:0.20 oksBi factor (B) (Ct xm):33.00 mmMax. Inear excursion (Xmax):7 mmVoice coil inductance @ MHz (LeiN):1.20 mHHalf-space efficency (Ef):3.31%Mounting informationsOverall diameter:Overall diameter:23-00 mm / 11.64-11.97 inchBolt circle diameter:23-00 mm / 11.64-11.97 inchBolt circle diameter:23-00 mm / 11.64-11.97 inchBolt circle diameter: <t< th=""><th>General specifications</th><th>Nominal Diameter:</th><th>12 inch / 305 mm</th></t<>	General specifications	Nominal Diameter:	12 inch / 305 mm
Power handling capacity:1000 WSensitivity:98.5 dBFrequency range:50 - 2000 HzEffective piston diameter:20 mm / 10.24 inchMax. Excursion Before Damage:53 mm / 2.09 inchWaice Coil Diameter:40 inch / 102 mmVoice Coil Unimeter:40 inch / 102 mmVoice Coil Unimeter:20 mm / 0.79 inchNumber of layers:2Rind of layers:inside/outsideTop Plate Thickness:12 mm / 0.47 inchCore Design:CurvedSurround Material:PolycottonSurround Material:PolycottonSurround Design:Triple rolMagnets:NeodymiumHypervented magnetic structure:YesSpider:Solo ohmMechanical factor:6.00 OmsElectrical factor:0.20 kgBit factor:0.20 kgDC resistance (Re) (ohm):3.50 T x mElectrical factor:0.20 kgBit factor:0.20 kgBit factor:0.20 kgBit factor (Bit) T x m):2.50 T x mElectrical factor:0.050 m2Max. lineer excursion (Xmax):7 mmVoice coil inductance (Shit 2 (Lalk):1.20 mHHaf-space efficiency (Eff):3.31%Mounting InformationsOverall diameter:Port mount baffle cut-out:28 Jam / 11.54.11.97 inchBot rice diameter:7 mm / 2.28 inchesBot rice diameter:7 mm / 2.28 inchesBot rice diameter:7 mm / 2.28 inchFreet mount baffle cut-out: <td></td> <td>Rated Impedance:</td> <td>8 ohm</td>		Rated Impedance:	8 ohm
Sensitivity:98.5 dBFrequency range:50 - 2000 HzEffective piston diameter:260 mm / 10.24 inchMax: Excursion Before Damage:50 mm / 10.29 inchMinimum Impedance (ohm):6.6 ohmVoice Coll Diameter:4.0 inch / 102 mmVoice Coll Diameter:20 mm / 0.79 inchVoice Coll Uength:20 mm / 0.79 inchNumber of layers:2Kind of layers:2Cone Design:CurvedCore Design:CurvedSurround Material:PolycottonSurround Design:Triple rollMagets:NeodymumHypervented magnetic structure:YesSpider:SingleThiele - small parametersResonance frequency (Fs):Effective piston area (S0):0.21 QesTotal factor:0.20 QisEffective piston area (S0):0.25 On 2May infer (BI) (Tx m):2.350 Tx mEffective piston area (S0):0.05 m2Max, linear excursion (Xmax):7 mmVoice coll inductance (BIMt? (LefK):1.20 mHHaff-space efficency (Eff):3.31%Mounting informationsOverall diameter:Mount baffle cut-out:2.93-304 mm / 11.54-11.97 inchBolt hole diameter:7 mm / 0.28 inchFrequency (Eff):3.31%		Program Power (watt):	2000 W
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Voice Coil Winding Material:AluminiumVoice Coil Length:20 mm / 0.79 inchNumber of layers:2Kind of layers:inside/outsideTop Plate Thickness:12 mm / 0.47 inchCone Design:CurvedSurround Material:PolycottonSurround Design:Triple rollMagnets:NeodymiumHypervented magnetic structure:YesSpider:SingleThiele - small parametersResonance frequency (Fs):Bectrical factor:0.20 otsElectrical factor:0.20 otsBifactor (BI) (T x m):23.50 T x mEffective moving mass (Mms):73.0 gEquivalent Casi in loaded (Vas):53.0 litersEffective piston area (Sd):0.050 m2Max. linear excursion (Xmax):7 mmVoice coil inductance @ lkHz (Lelk):120 mHHalf-space efficiency (Eff):3.3%Mounting informationsOverall diameter:Bolt circle diameter:29-304 mm / 11.54-11.97 inchBolt circle diameter:29-3304 mm / 11.54-11.97 inchBolt hole diameter:29-3304 mm / 11.54-11.97 inchBolt hole diameter:29-3304 mm / 11.54-11.97 inchBolt hole diameter:29-3304 mm / 11.16 hRear mount baffle cut-out:28-20 mm / 11.16 hRear mount baffle cut-out:28-20 mm / 11.16 hRear mount baffle cut-out:29-304 mm / 11.18 inchVolume occupied by the driver:29-liters / 0.11 ft 3		Minimum Impedance (ohm):	6.6 ohm
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Surround Material:PolycottonSurround Design:Triple rollMagnets:NeodymiumHypervented magnetic structure:YesSpider:SingleThiele - small parametersResonance frequency (Fs):52 HzDC resistance (Re) (ohm):5.00 ohmMechanical factor:0.20 QtsElectrical factor:0.20 QtsBl factor (Bb) (T x m):23.50 T x mEffective moving mass (Mms):73.0 gEquivalent Cas in loaded (Vas):53.0 litersEffective piston area (Sd):0.500 m2Max. linear excursion (Xmax):7mVoice coil inductance @ IkHz (LeIk):120 mHHalf-space efficency (Eff):33%Mounting informationsOverall diameter:Bolt olic diameter:293-304 mm /11.54-11.97 inchBolt olic diameter:282 mm /11.11 inchFort mount baffle cut-out:284 mm /11.18 inchVoime occupied by the driver:291 liters / 0.11 ft3		Top Plate Thickness:	12 mm / 0.47 inch
Surround Design:Triple rollMagnets:NeodymiumHypervented magnetic structure:YesSpider:SingleThiele - small parametersResonance frequency (Fs):52 HzDC resistance (Re) (ohm):5.00 ohmMechanical factor:6.00 QmsElectrical factor:0.21 QesTotal factor:0.20 QtsBl factor (Bl) (T x m):23.50 T x mEffective moving mass (Mms):73.0 gEquivalent Cas air loaded (Vas):53.0 litersEffective piston area (Sd):0.050 m2Max. linear excursion (Xmax):7 mmVoice coil inductance @ 1kHz (Lelk):1.20 mHHalf-space efficency (Eff):3.31%Mounting informationsOverall diameter:Bolt circle diameter:293-304 mm / 11.54-11.97 inchBolt hole diameter:7 mm / 0.28 inchFront mount baffle cut-out:282 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3		Cone Design:	Curved
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Spider:SingleThiele - small parametersResonance frequency (Fs):52 HzDC resistance (Re) (ohm):5.00 ohmMechanical factor:6.00 QmsElectrical factor:0.21 QesTotal factor (Bi) (T x m):23.50 T x mEffective moving mass (Mms):73.0 gEquivalent Cas air loaded (Vas):53.0 litersEffective piston area (Sd):0.050 m2Max. linear excursion (Xmax):7 mmVoice coil inductance @ lkHz (Lelk):120 mHHaf-space efficency (Eff):331%Mounting informationsOverall diameter:Bolt circle diameter:293-304 mm / 11.54-11.97 inchBolt hole diameter:293-304 mm / 11.54-11.97 inchRear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:29 liters / 0.11 ft3			Neodymium
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DC resistance (Re) (ohm):5.00 ohmMechanical factor:6.00 QmsElectrical factor:0.21 QesTotal factor:0.20 QtsBl factor (BI) (T x m):23.50 T x mEffective moving mass (Mms):73.0 gEquivalent Cas air loaded (Vas):53.0 litersEffective piston area (Sd):0.050 m2Max. linear excursion (Xmax):7 mmVoice coil inductance @ 1kHz (Le1k):1.20 mHHalf-space efficency (Eff):3.31%Mounting informationsOverall diameter:Bolt circle diameter:293-304 mm / 11.54-11.97 inchBolt hole diameter:7 mm / 0.28 inchFront mount baffle cut-out:282 mm / 11.1 inchRear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3		Spider:	Single
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Effective moving mass (Mms):73.0 gEquivalent Cas air loaded (Vas):53.0 litersEffective piston area (Sd):0.050 m2Max. linear excursion (Xmax):7 mmVoice coil inductance @ 1kHz (Le1k):1.20 mHHalf-space efficency (Eff):3.31%Mounting informationsOverall diameter:Bolt circle diameter:293-304 mm / 11.54-11.97 inchBolt hole diameter:7 mm / 0.28 inchFront mount baffle cut-out:282 mm / 11.1 inchRear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3		Bl factor (Bl) (T x m):	23.50 T x m
Effective piston area (Sd):0.050 m2Max. linear excursion (Xmax):7 mmVoice coil inductance @ 1kHz (Le1k):1.20 mHHalf-space efficency (Eff):3.31%Mounting informationsOverall diameter:Bolt circle diameter:293-304 mm / 11.54-11.97 inchBolt hole diameter:7 mm / 0.28 inchFront mount baffle cut-out:282 mm / 11.1 inchRear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3			73.0 g
Effective piston area (Sd):0.050 m2Max. linear excursion (Xmax):7 mmVoice coil inductance @ 1kHz (Le1k):1.20 mHHalf-space efficency (Eff):3.31%Mounting informationsOverall diameter:Bolt circle diameter:293-304 mm / 11.54-11.97 inchBolt hole diameter:7 mm / 0.28 inchFront mount baffle cut-out:282 mm / 11.1 inchRear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3		Equivalent Cas air loaded (Vas):	53.0 liters
Voice coil inductance @ 1kHz (Le1k): Half-space efficency (Eff):1.20 mH 3.31%Mounting informationsOverall diameter: Bolt circle diameter:320 mm / 12.6 inchesBolt circle diameter:293-304 mm / 11.54-11.97 inchBolt hole diameter:7 mm / 0.28 inchFront mount baffle cut-out:282 mm / 11.1 inchRear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3			0.050 m2
Half-space efficency (Eff):3.31%Mounting informationsOverall diameter:320 mm / 12.6 inchesBolt circle diameter:293-304 mm / 11.54-11.97 inchBolt hole diameter:7 mm / 0.28 inchFront mount baffle cut-out:282 mm / 11.1 inchRear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3		Max. linear excursion (Xmax):	7 mm
Half-space efficency (Eff):3.31%Mounting informationsOverall diameter:320 mm / 12.6 inchesBolt circle diameter:293-304 mm / 11.54-11.97 inchBolt hole diameter:7 mm / 0.28 inchFront mount baffle cut-out:282 mm / 11.1 inchRear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3		Voice coil inductance @ 1kHz (Le1k):	1.20 mH
Bolt circle diameter:293-304 mm / 11.54-11.97 inchBolt hole diameter:7 mm / 0.28 inchFront mount baffle cut-out:282 mm / 11.1 inchRear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3		Half-space efficency (Eff):	3.31%
Bolt hole diameter:7 mm / 0.28 inchFront mount baffle cut-out:282 mm / 11.1 inchRear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3	Mounting informations	Overall diameter:	320 mm / 12.6 inches
Front mount baffle cut-out:282 mm / 11.1 inchRear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3		Bolt circle diameter:	293-304 mm / 11.54-11.97 inch
Rear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3		Bolt hole diameter:	7 mm / 0.28 inch
Rear mount baffle cut-out:284 mm / 11.18 inchVolume occupied by the driver:2.9 liters / 0.11 ft3		Front mount baffle cut-out:	282 mm / 11.1 inch
Volume occupied by the driver: 2.9 liters / 0.11 ft3		Rear mount baffle cut-out:	
Standard compliance CE marking: Yes		Volume occupied by the driver:	
	Standard compliance	CE marking:	Yes

DATASHEET



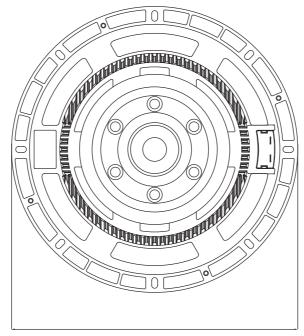
Shipping informations Package Height:	7.7 kg / 16.98 lbs
Package Height: Package Depth: Package Wight:	354 mm / 13.94 inches 364 mm / 14.33 inches

PART NUMBER

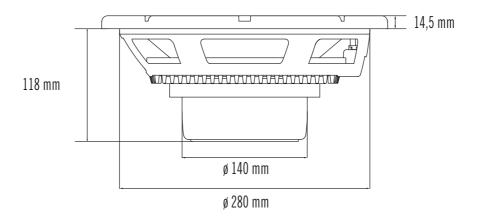
• **11100112** MB12N405

80hm

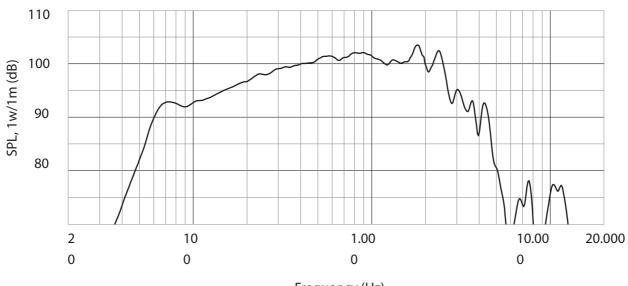




ø 320 mm







Frequency (Hz)

