

PDN.8BM31 | Bass/ Mid Range Driver

8" / 200 mm
NOMINAL DIAMETER

150 Watts (A.E.S.)
POWER HANDLING

95 dB
SENSITIVITY

70 Hz - 5 kHz
FREQUENCY RESPONSE

2.0" / 51 mm
VOICE COIL DIAMETER

Weighs only 2.2 Kg

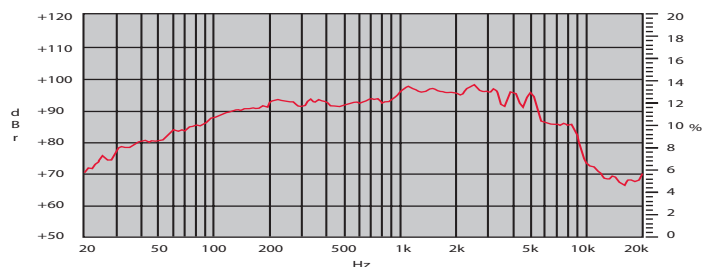


- ▶ Heavy duty cast aluminium frame for increased rigidity
- ▶ Neodymium magnet assembly
- ▶ Net Weight: 2.2kg

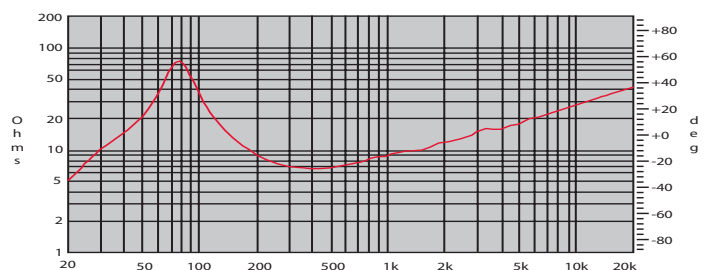
SPECIFICATIONS

Nominal Diameter	8" / 200 mm
Voice Coil Diameter	2.0" / 51 mm
Nominal Impedance	4 / 8 / 16 Ω
Power Rating	150 Watts (A.E.S.)
Peak Power (6dB Crest Factor)	600 Watts (A.E.S.)
Sensitivity (1w - 1m)	95 dB
Frequency Range	70 Hz - 5 kHz
Recommended Enclosure Volume	5 - 20 Litres
Resonance	70 Hz
Voice Coil Winding Depth	0.45" / 11.5 mm
Magnet Gap Depth	0.25" / 6.5 mm
Flux Density	1.425 Tesla
Magnet Material	Neodymium
Voice Coil Material	Copper
Dust Dome Material	Paper
Suspension Material	Fabric
Cone / Surround Material	Paper / Fabric

FREQUENCY RESPONSE DATA:



IMPEDANCE:



APPLICATION NOTES:

Perfectly suited for full range high power applications in compact enclosures, the PDN.8BM31 excels in compact sound systems popular for total coverage of the dance floor where low profile cabinets are required with excellent low frequency response. Neodymium technology ensures superb versatility in situations in which a conventional ceramic magnet transducer is unsuitable on grounds of portability or ease of installation.

*1 Power compression is the reduction of sensitivity at the specified power. Higher power ratings do not necessarily give a proportionate increase in SPL therefore the maximum SPL of the driver may significantly exceed that of other manufacturers with high power ratings.
** Distortion is measured at 10% of the rated power (A.E.S. Standard).

1. A.E.S. Standard (60 to 600 Hz) Program 300 Watts.
2. A.E.S. Recommended Practice.
3. Thiele - Small Parameters follow a 150 Watt preconditioning period.

Half space response measured in a 975 Litre sealed box.
Please note that frequency response measurements are supplied for comparison purposes only and are not a measure of the low frequency performance which may be achievable in a fully optimised system.

THEIR SMALL PARAMETERS

Fs	71.037 Hz
Re	5.347 Ω
Qts	0.286
Qms	4.65
Qes	0.305
Vas	15.171 Litres
Mms	21.247 grams
Sd	213.82 cm ²
Cms	236.246 μm/N
BL	12.889 T/m
Xmax	4 mm
Vd	Litres
Reference Efficiency	%

MOUNTING AND SHIPPING INFORMATION

Fixing Holes
x8 Fixing Holes M5

Nett Weight
4.85 lb / 2.2 Kg

Shipping Weight
5.51 lb / 2.5 Kg

