

PREMIUM GRADE MEDIUM THROW DEEP BASS SUBWOOFER OPTIMISED FOR SEALED OR PORTED ENCLOSURES



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DETAILED TECHNICAL DATA

Power Handling (Per Driver):	1000WRMS (@0%Thd)
Nominal Impedance:	2+2ohm
DC Impedance:	3.77ohm
Voice Coil Diameter:	65.5mm
Voice Coil Layers:	4
Magnet:	156mm x 50mm
Magnet Type:	Y30 Ferrite

BOX COMPATIBILITY

Recommended Box Type:	Sealed/Ported
Recommended Box Size:	25>50Litres
Optimal Frequency Response:	30>100Hz
Recommended Port Cross Sectional Area (CSA):	15"2>30"2
Recommended Tuning Frequency:	35>45Hz

INSTALLATION POINTS

Failure to observe any of these installation points will invalidate your warranty:

- Do not run this subwoofer infinite baffle.
- Ensure your enclosure is within the specifications listed.
- Only use correctly rated non-combustible cables.

TEAM TIPS

- We recommend to put all subwoofers in your system in a box with a shared air space.
- We do not recommend to run dual coil woofers from separate mono channels or amplifiers. This also applies (but less so) to single coil speakers in the same enclosure air space run from separate mono channels. We always recommend the use of a larger amplifier when possible in this case.

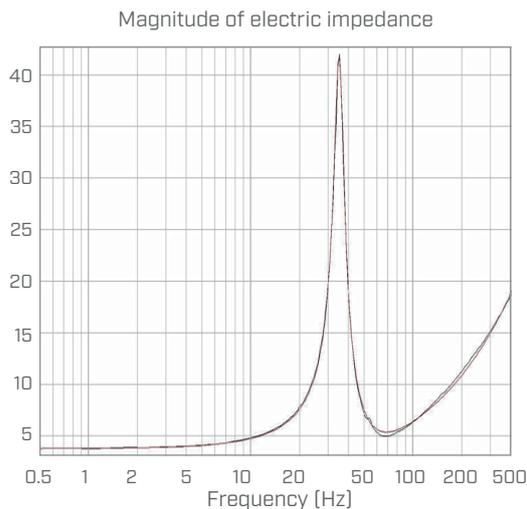
- For setting subwoofers it is possible to make a useful DIY clip detector. Wire an old tweeter and high voltage capacitor (we recommend a 250V 6.8uF.) Next, play a 50Hz tone. Turn the gain up slowly until the tweeter makes a distinctive metallic rasp then back the gain off a small amount until the tweeter stops making the noise. Only use an old tweeter as this can cause damage.

TS PARAMETERS

Name	Value	Unit	Note
RE	3.77	OHM	Electrical voice coil resistance at DC
KRM	0.0027	OHM	Wright inductance model
ERM	1		Wright inductance model
KXM	0.0282	OHM	Wright inductance model
EXM	0.81		Wright inductance model
CMES	832.33	UF	Electrical capacitance representing moving mass
LCES	24.68	MH	Electrical inductance representing driver compliance
RES	37.27	OHM	Resistance due to mechanical losses
FS	35	HZ	Driver resonance frequency
MMS	215.907	G	Mechanical mass of driver diaphragm assembly including air load and coil
MMD	208	G	Mechanical mass of voice coil and diaphragm without air load
RMS	6.96	KG/S	Mechanical resistance of total driver losses
CMS	0.095	MM/N	Mechanical compliance of driver suspension
KMS	10.51	N/MM	Mechanical stiffness of driver suspension

Name	Value	Unit	Note
BL	16.106	N/A	Force factor BL product
LAMBDA	0.029		Suspension creep factor
QTP	0.72		Total Q factor considering all losses
QMS	6.844		Mechanical Q factor of driver in free air considering RMS only
QES	0.692		Electrical Q factor of driver in free air considering RE only
QTS	0.628		Total Q factor considering RE and RMS only
VAS	17.4218		Equivalent air volume of suspension
MQ	0.105	%	Ref. efficiency (2 PI radiation using RE)
LM	82.4	DB	Sound pressure level (SPL at 1M for 1W @ RE)
LMOM	82.66	DB	Nom. sensitivity (SPL at 1M for 1W @ ZN)
RMSE Z	4.27	%	Root mean square fitting error of driver impedance Z(F)
RMSE HX	2.67	%	Root mean square fitting error of transfer function HX(F)
SD	359.68	CM2	Diaphragm area
XMAX	25	MM	Total linear movement

FREQUENCY VS IMPEDANCE



TECHNICAL DRAWING

Total Diameter:	262.60mm	Mounting Depth:	160mm
Weight Approx. (Per a Driver):	8.5Kg	Mounting Diameter:	230mm

