

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



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## DETAILED TECHNICAL DATA

Power Handling (Per Driver):	1500 WRMS (@0%Thd)
Nominal Impedance:	2+2 ohm
DC Impedance:	1.8+1.8 ohm
Voice Coil Diameter:	76.5 mm
Voice Coil Layers:	4
Magnet:	180 mm x 50mm
Magnet Type:	Y30 Ferrite

## BOX COMPATIBILITY

Recommended Box Type:	Sealed/Ported
Recommended Box Size:	60>100Litres
Optimal Frequency Response:	20>80Hz
Recommended Port Cross Sectional Area (CSA):	25"2>50"2
Recommended Tuning Frequency:	25>40Hz

## 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.

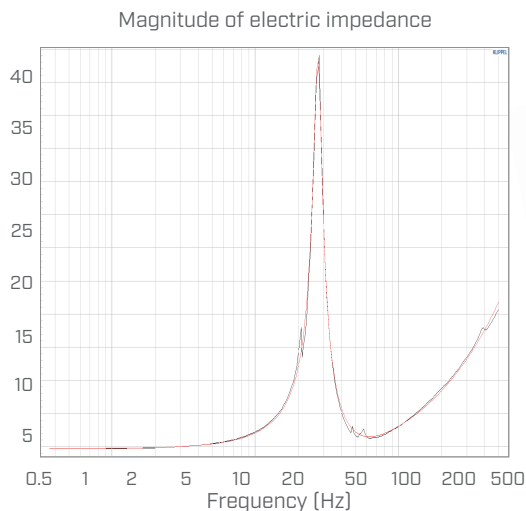
- For setting subwoofers it is possible to make a useful DIY clip detector. Wire an old tweeter and high voltage capacitor (we recommend a 250V 6.8uF.) Next, play a 50Hz tone. Turn the gain up slowly until the tweeter makes a distinctive metallic rasp then back the gain off a small amount until the tweeter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

## TS PARAMETERS

Name	Value	Unit	Note
RE	3.71	OHM	Electrical voice coil resistance at DC
KRM	0.0029	OHM	Wright inductance model
ERM	0.99		Wright inductance model
KXM	0.0344	OHM	Wright inductance model
EXM	0.78		Wright inductance model
CMES	835.51	UF	Electrical capacitance representing moving mass
LCES	39.88	MH	Electrical inductance representing driver compliance
RES	49.65	OHM	Resistance due to mechanical losses
FS	27.6	HZ	Driver resonance frequency
MMS	382.31	G	Mechanical mass of driver diaphragm assembly including air load and coil
MMD	356.538	G	Mechanical mass of voice coil and diaphragm without air load
RMS	9.215	KG/S	Mechanical resistance of total driver losses
CMS	0.089	MM/N	Mechanical compliance of driver suspension
KMS	11.47	N/MM	Mechanical stiffness of driver suspension

Name	Value	Unit	Note
BL	21.391	N/A	Force factor BL product
LAMBDA	-0.001		Suspension creep factor
QTP	0.56		Total Q factor considering all losses
QMS	7.187		Mechanical Q factor of driver in free air considering RMS only
QES	0.547		Electrical Q factor of driver in free air considering RE only
QTS	0.5		Total Q factor considering RE and RMS only
VAS	79.7871		Equivalent air volume of suspension
MQ	0.299	%	Ref. efficiency (2 PI radiation using RE)
LM	86.96	DB	Sound pressure level (SPL at 1M for 1W @ RE)
LMOM	87.29	DB	Nom. sensitivity (SPL at 1M for 1W @ ZN)
RMSE Z	5.63	%	Root mean square fitting error of driver impedance Z(F)
RMSE HX	5.54	%	Root mean square fitting error of transfer function HX(F)
SD	804.25	CM2	Diaphragm area
XMAX	28	MM	Total linear movement

## FREQUENCY VS IMPEDANCE



## TECHNICAL DRAWING

Total Diameter:	392mm	Mounting Depth:	195mm
Weight Approx. (Per a Driver):	11.8Kg	Mounting Diameter:	358mm

