COMPETITION GRADE LONG THROW DEEP BASS SUBWOOFER

UPC: 5060905111923

DETAILED TECHNICAL DATA

Power Handling (Per Driver):	3500 WRMS (@0%Thd)
Nominal Impedance:	1+1 ohm
DC Impedance :	0.9+0.9 ohm
Voice Coil:	88.5 mm
Voice Coil Layers :	4 Layers Round Wire
Magnet:	230 mm x 60 mm
Magnet Type:	Y35 333 Oz Ferrite

BOX COMPATIBILITY

Recommended Box Type:	Ported
Example Box Size:	70Litres
Optimal Frequency Response:	30>100Hz
Example Port Cross Sectional Area (CSA):	24.8"2>34"2
Recommended Tuning Frequency:	30>50Hz

INSTALLATION POINTS

Failure to observe will invalidate warranty.

- Do not run this subwoofer infinite baffle.
- Ensure that enough clean power is available. Do not rely on amplifier published information to set gain controls.
- Perform break in for several hours at medium level before use

TEAM TIPS

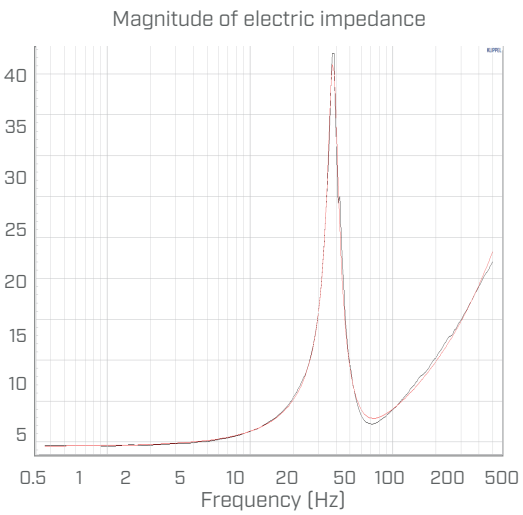
- This is an extreme subwoofer, designed for use to create extreme sound. Time spent building a solid, high quality enclosure will be rewarded with performance. Glue and screw all joint lines and seal with silicone afterwards.
- Pay attention to fixing the woofer to the enclosure. We recommend T nuts or captive nuts. We do not recommend the use of self tapping screws.
- Ensure to use a very thick baffle plate for the installation.
- Remember, the function of a subwoofer is to move air. If you can feel vibration in the structure that is effectively wasted energy. The best systems minimise wasted energy and move the most air.
- Remember, more cone area gives more SPL. There is a limit to what a given amount of cone area can produce.

TS PARAMETERS

Name	Value	Unit	Note
RE	0.45	OHM	Electrical voice coil resistance at DC
KRM	0.0014	OHM	Wright inductance model
ERM	0.86		Wright inductance model
KXM	0.0081	OHM	Wright inductance model
EXM	0.70		Wright inductance model
CMES	5213.96	UF	Electrical capacitance representing moving mass
LCES	3.31	MH	Electrical inductance representing driver compliance
RES	4.52	OHM	Resistance due to mechanical losses
FS	38.3	HZ	Driver resonance frequency
MMS	383.614	G	Mechanical mass of driver diaphragm assembly including air load and coil
MMD	369.305	G	Mechanical mass of voice coil and diaphragm without air load
RMS	16.262	KG/S	Mechanical resistance of total driver losses
CMS	0.045	MM/N	Mechanical compliance of driver suspension
KMS	22.20	N/MM	Mechanical stiffness of driver suspension

Name	Value	Unit	Note
BL	8.578	N/A	Force factor BL product
LAMBDA	0.042		Suspension creep factor
QTP	0.665		Total Q factor considering all losses
QMS	5675		Mechanical Q factor of driver in free air considering RMS only
QES	0.561		Electrical Q factor of driver in free air considering RE only
QTS	0.510		Total Q factor considering RE and RMS only
VAS	18.8129	|	Equivalent air volume of suspension
MQ	0.181	%	Ref. efficiency (2 PI radiation using RE)
LM	84.78	DB	Sound pressure level (SPL at 1M for 1W @ RE)
LMOM	85.27	DB	Nom. sensitivity (SPL at 1M for 1W @ ZN)
RMSE Z	6.27	%	Root mean square fitting error of driver impedance Z(F)
RMSE HX	3.37	%	Root mean square fitting error of transfer function HX(F)
SD	543.25	CM2	Diaphragm area
XMAX	23	mm	Total linear movement

FREQUENCY VS IMPEDANCE



TECHNICAL DRAWING

Total Diameter:	320 mm
Weight Approx. (Per a Driver):	25.24Kg
Mounting Depth:	226mm
Mounting Diameter:	298mm