COMPETITION GRADE LONG THROW DEEP BASS SUBWOOFER

Team 12/2
RED
BASSFACE

UPC: 5060905111930

CE ✓RoHS UKCA DESIGNED IN UK MADE IN CHINA

DETAILED TECHNICAL DATA

Power Handling (Per Driver):	3500 WRMS (@0%Thd)
Nominal Impedance:	2+2 ohm
DC Impedance :	1.9+1.9 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	1.03	OHM	Electrical voice coil resistance at DC
KRM	0.0039	OHM	Wright inductance model
ERM	0.86		Wright inductance model
KXM	0.0241	OHM	Wright inductance model
EXM	0.69		Wright inductance model
CMES	2028.96	UF	Electrical capacitance representing moving mass
LCES	8.77	MH	Electrical inductance representing driver compliance
RES	11.40	OHM	Resistance due to mechanical losses
FS	37.7	HZ	Driver resonance frequency
MMS	414.824	G	Mechanical mass of driver diaphragm assembly including air load and coil
MMD	400.516	G	Mechanical mass of voice coil and diaphragm without air load
RMS	17.938	KG/S	Mechanical resistance of total driver losses
CMS	0.043	MM/N	Mechanical compliance of driver suspension
KMS	23.31	N/MM	Mechanical stiffness of driver suspension

Name	Value	Unit	Note
BL	14.299	N/A	Force factor BL product
LAMBDA	0.032		Suspension creep factor
QTP	0.625		Total Q factor considering all losses
QMS	5.482		Mechanical Q factor of driver in free air considering RMS only
QES	0.496		Electrical Q factor of driver in free air considering RE only
QTS	0.455		Total Q factor considering RE and RMS only
VAS	17.9175	l	Equivalent air volume of suspension
MQ	0.187	%	Ref. efficiency (2 PI radiation using RE)
LM	84.91	DB	Sound pressure level (SPL at 1M for 1W @ RE)
LMOM	84.78	DB	Nom. sensitivity (SPL at 1M for 1W @ ZN)
RMSE Z	7.07	%	Root mean square fitting error of driver impedance Z(F)
RMSE HX	4.07	%	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

Magnitude of electric impedance
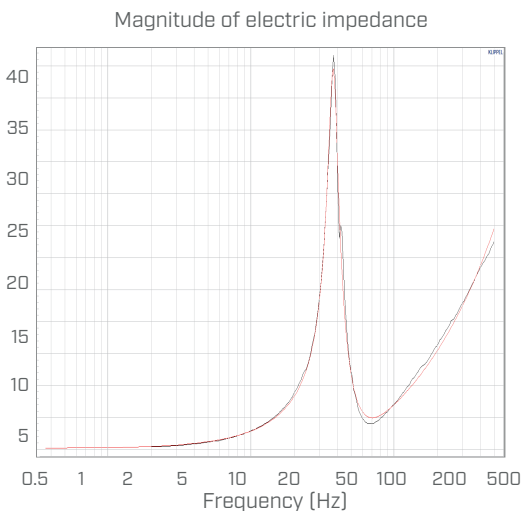
TECHNICAL DRAWING

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

Ø298mm

Ø320mm
226mm
Ø236mm
Ø281mm