Full Range Loudspeakers

AN3510

3.5-inch neodymium magnet compact full range driver

- Square chassis profile for close coupling
- Rigid aluminium cone
- Half roll elastomer surround
- Weatherproof

70W
Continuous power rating

87dB
Sensitivity

1-inch
voice coil

General Specifications

Nominal Diameter	88mm / 3.5in
Power Rating	35W
Continuous power rating	70W
Rated impedance	8 ohm
Sensitivity	87dB
Frequency range	98-18,500Hz
Chassis type	Glass reinforced ABS
Magnet type	Neodymium
Voice coil diameter	25mm / 1in
Former material	Polyimide
Cone material	Aluminium
Surround material	Elastomer
Suspension	Single
Gap height (Hg)	4mm / 0.14in
VC winding height (Hvc)	6.5mm / 0.23in
Additional impedances	16 ohm

Mounting Information

Overall size	89.3x89.3mm / 3.52x3.52in
Overall depth	50mm / 2in
Cut-out diameter	78.8mm / 3.1in
Fitting	4 x M4 holes
Mounting hole PCD	104mm / 4.1in
Unit weight	0.16kg / 0.35lb

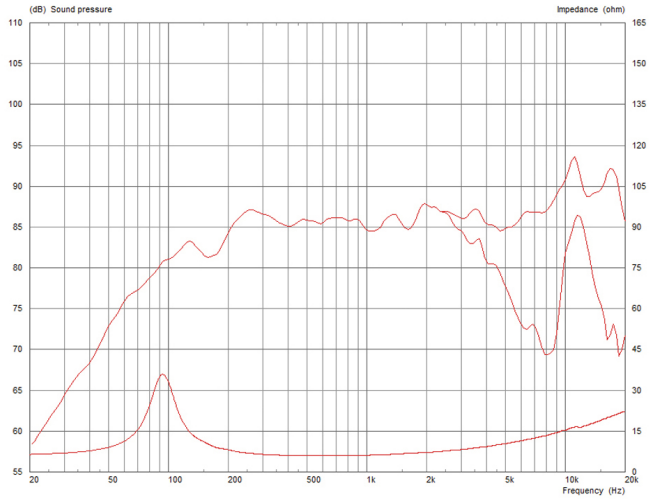
Packed Dimensions & Weight

Single pack size W x D x H	115mm x 115mm x 70mm / 4.5in x 4.5in x 2.8in
Single pack weight	250g / 0.6lb
Multi pack qty	72
Multi pack size W x D x H	460mm x 635mm x 455mm / 18.1in x 25in x 17.9in
Multi pack weight	15kg / 33lb

Parameters

Sd	38.45cm^2 / 5.9in^2
Fs	113.4Hz
Mms	3.76g / 0.13oz
Qms	5.093
Qes	0.740
Qts	0.646
Re	5.73 ohm
Vas	1.87l / 0.07ft^3
Bl	4.56Tm
Cms	0.52mm/N
Rms	0.53kg/s
Le (at 1kHz)	0.14mH
Xmax	2.25mm / 0.09in

Frequency Response and Impedance curves



Power rating: Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
Continuous power rating: Defined as 3dB greater than the AES rating.
Sensitivity: Measured on axis at 1W, 1m in 2? anechoic environment.
Xmax: 0.5*(Hvc-Hg) + 0.25*Hg
Parameters: Measured after unit subjected to pre-conditioning signal.

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