Full Range Loudspeakers

AN2075

2-inch neodymium magnet compact full range driver

- Square chassis profile for close coupling
- Integrated waveguide for greater HF dispersion
- Rigid aluminium cone
- Half roll elastomer surround
- Weatherproof

40W
Continuous power rating

80dB
Sensitivity

0.75in
voice coil



General Specifications

Nominal Diameter	50mm / 2in
Power Rating	20W
Continuous power rating	40W
Rated impedance	8 ohm
Sensitivity	80dB
Frequency range	160-19,000Hz
Chassis type	Glass reinforced ABS
Magnet type	Neodymium
Voice coil diameter	20mm / 0.75in
Former material	Polyimide
Cone material	Aluminium
Surround material	Elastomer
Suspension	Single
Gap height (Hg)	3mm / 0.12in
VC winding height (Hvc)	6mm / 0.24in
Additional impedances	32 ohm

Mounting Information

Overall size	56.2x56.2mm / 2.2x2.2in
Overall depth	43.5mm / 1.7in
Cut-out diameter	51.1mm / 2.0in
Fitting	4 x M4 holes
Mounting hole PCD	62mm / 2.45in
Unit weight	0.97kg / 0.2lb

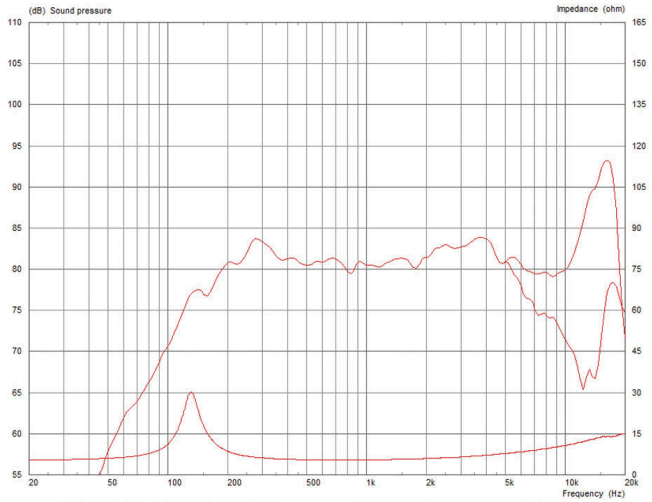
Packed Dimensions & Weight

Single pack size W x D x H	90mm x 90mm x 65mm / 3.5in x 3.5in x 2.6in
Single pack weight	200g / 0.4lb
Multi pack qty	72
Multi pack size W x D x H	450mm x 350mm x 380mm / 17.6in x 13.8in x 15in
Multi pack weight	10kg / 22lb

Parameters

Sd	12.56cm^2 / 1.95in^2
Fs	153.4Hz
Mms	1.49g / 0.05oz
Qms	5.281
Qes	0.998
Qts	0.839
Re	5.33 ohm
Vas	1.51l / 0.05ft^3
Bl	2.71Tm
Cms	0.72mm/N
Rms	0.27kg/s
Le (at 1kHz)	0.04mH
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.

Celestion, Claydon Business Park, Great Blakenham, Ipswich, IP6 0NL United Kingdom