Vifa-Speak A/s
DK-6920 Videbæk
Denmark

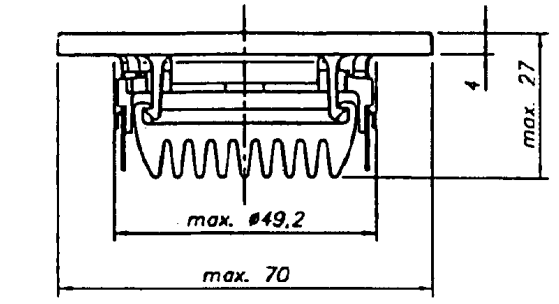
Fabrikation af kvalitetshøjttalere
Production of Quality Loudspeakers

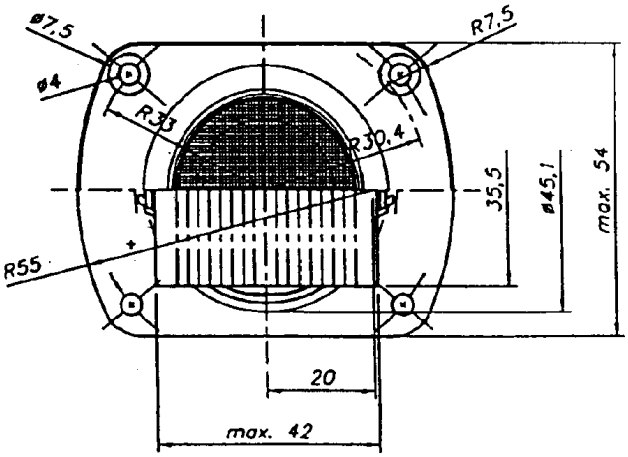
1" DOME TWEETER D26NC-15-06

Special Features:

- **COMPACT DESIGN.**
- **COATED FABRIC DIAPHRAGM.**
- **NEODYMIUM MAGNET.**
- **HEATSINK FOR INCREASED COOLING AND POWERHANDLING.**
- **LINEAR RESPONSE FACEPLATE.**
- **HIGH STABILITY FERROFLUID.**
- **MAGNETICALLY SHIELDED.**

Nominal Impedance [Ω]	6
Voice Coil Resistance [Ω]	4.6
Nominal Power (IEC 268-5) [W]	50[1]
Short term max power(IEC 268-5)	400[2]
Long term max power(IEC 268-5)	100[3]
Operating Power [W]	5.0
Sensitivity (1W/2.83v;1m)[dB]	89/91
Frequency Range [Khz]	3-22
Free Air Resonance [Hz]	1500
Voice Coil Diameter [mm]	25
V.C.Height [mm]	1.5
Air Gap Height [mm]	2
Voice Coil Inductance [mH]	0.05
Effective Diaphr. Area [cm^2]	7.1
Moving Mass (incl. air) [g]	0.33
Magnet Weight [g]/[oz]	11/0.4
Force Factor, B•l [T•m]	2.5
Vas [ltr]	0.002
Qms	1.48
Qes	2.29
Qts	0.9



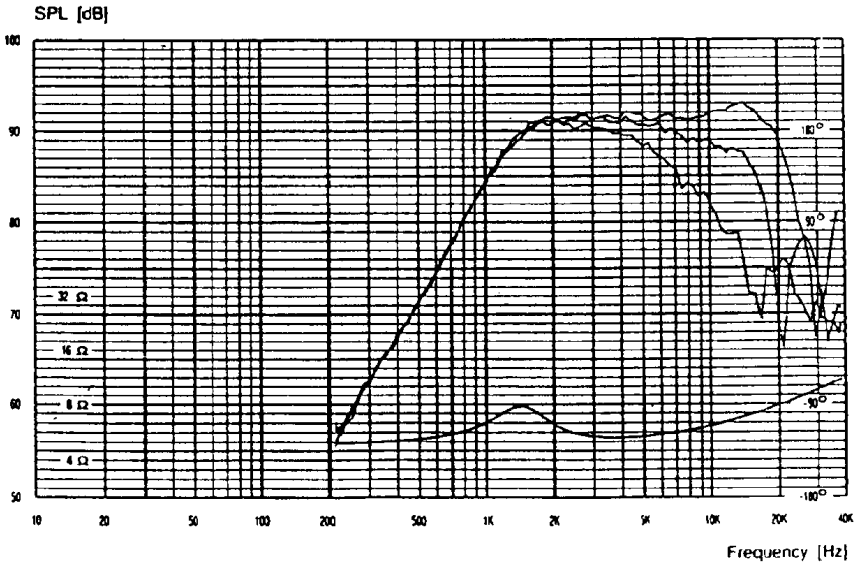


D26NC-15-06

Input: 2.83V
Mic.: 1m
Infinite baffle.

Sound Pressure response.
0, 30 & 60 deg.
20.08.95 FBJ

Anechoic Room 6x7x8 meters.
Half space free-field above 100 Hz.
Brüel & Kjær 2012 Audio Analyzer.



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Akts. reg.nr.: 209648 • Bank: Unibank A/S, Herning afd. • SWIFT UNIB DK KK

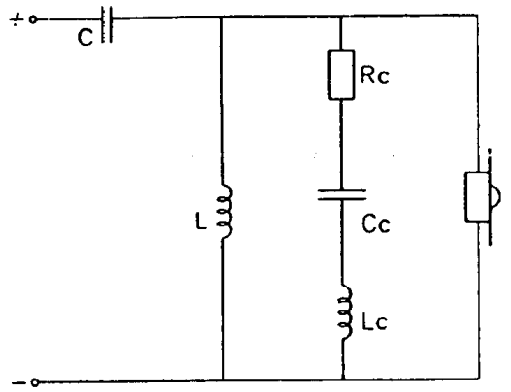
D26NC-15-06 Applications

Recommended cross-over:

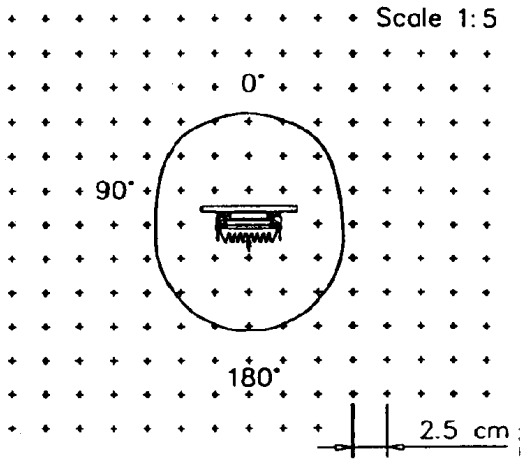
Nom. power: [W]	Fc: [Hz]	C [uF]	L [mH]
50	3500	8.2	0.22

Compensation circuit:

Rc [Ω]	Cc [uF]	Lc [mH]
22	10	1.5



Magnetic stray field: [3 Gauss limit]



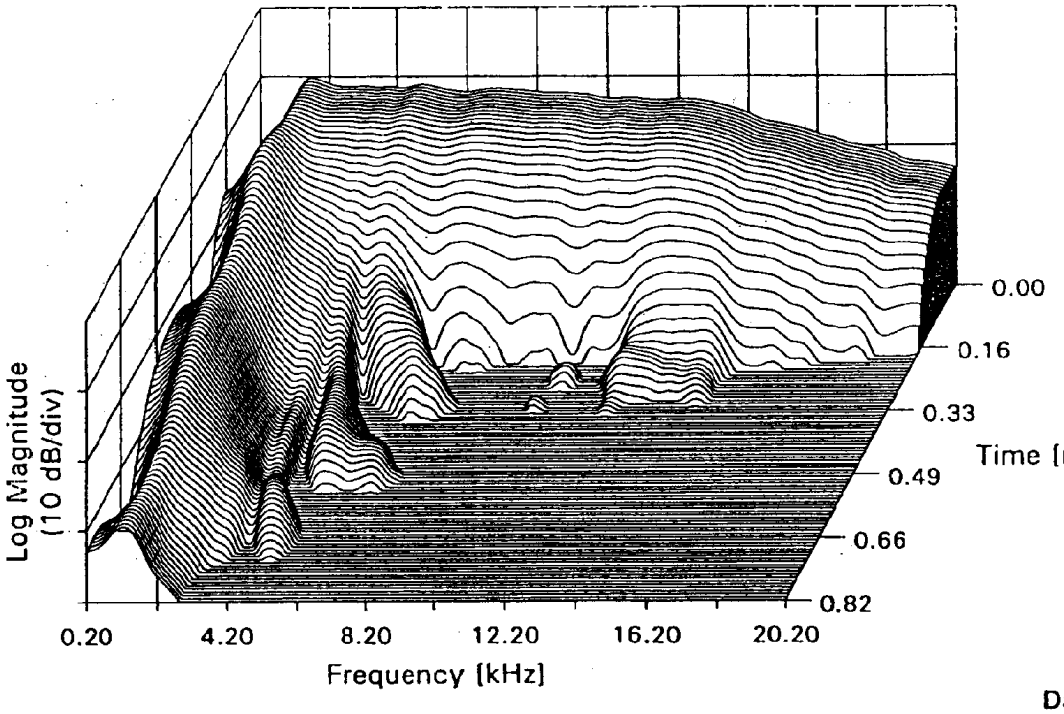
Distance to 3 Gauss limit:

0° : 7.0 cm (2.8 inches) from top of front.
90° : 6.8 cm (2.7 inches) from center of front.
180° : 9.0 cm (3.5 inches) from top of front.

It is recommended to use at least 2'nd order (12dB/oct) cross over for this drive unit.
The load provided by the cross over should be as low as possible at the tweeter resonance frequency. To ensure maximum electrical damping and consequently minimum excursion, it is also recommended to apply a parallel compensation circuit . This is essential for high power input.
Such a circuit has been used for the power handling tests.

Note 1-3) Power test conditions: Amb. temp. 21°C ± 3°C. Note 1) 100 hours continuous.
Note 2) Signal 1 sec., pause 1 min., repeated 60 times. Note 3) Signal 1 min., pause 2 min., repeated 10 times.

CUMULATIVE SPECTRAL DECAY PLOT.



MLS impulse response
Samp. freq.: 120 kHz
Time window: 5 ms
Mic. distance: 0.15 m
Conditions:
Infinite Baffle

Date: 01-07-96 / FBJ