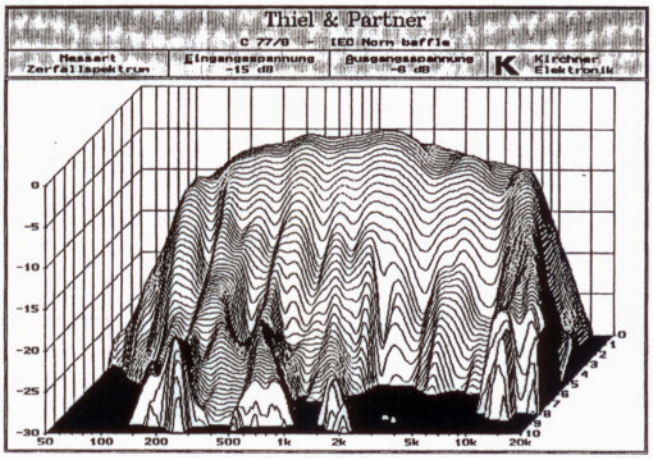
C² 77

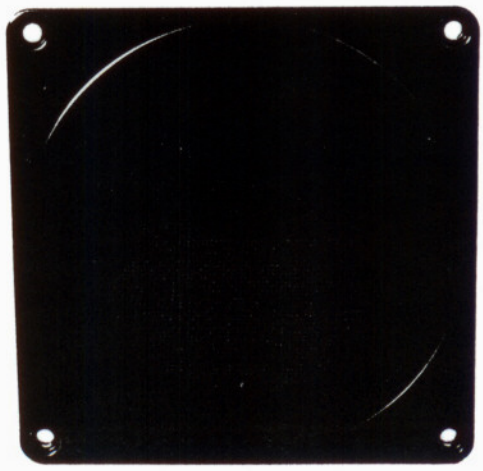
data sheet 1/95



Ferrofluid filled midrange with 3-1/2 inch light weight concave ceramic dome. Usable in 3-way systems as midrange driver. High resolution and very good dispersion up to 5 kHz. Low resonance frequency allows second order filtering and a crossover frequency as low as 300 Hz. The ultra hard ceramic dome material moves like a piston in the recommended frequency band and the high internal sound velocity features very low distortion and virtually no coloration.

Recommended frequency range: 300 Hz - 5 kHz

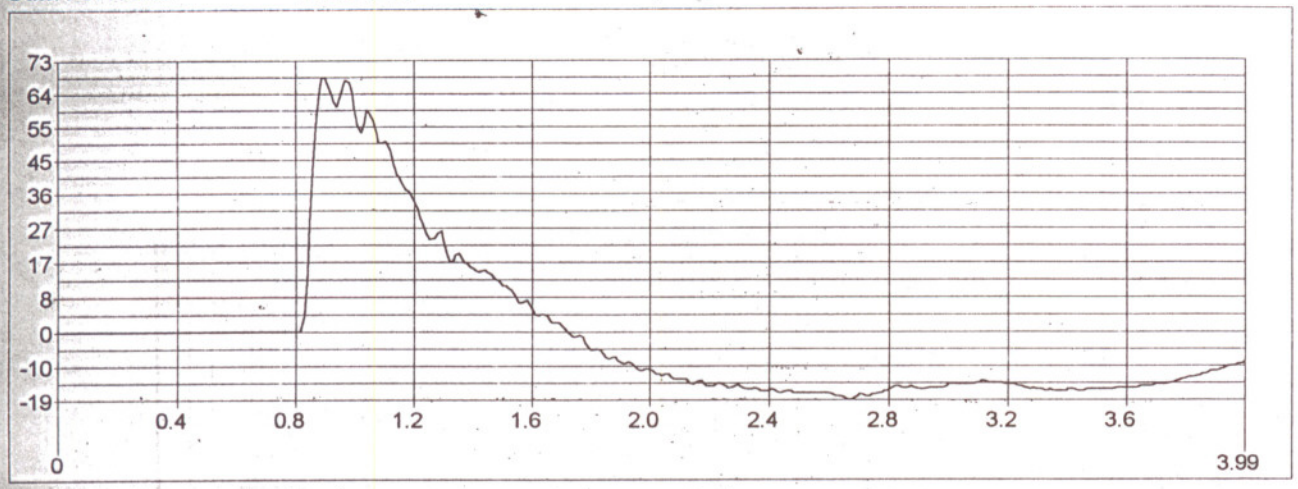
Power handling, filtered	P	150	W
Sensitivity	E	88	dB
DC resistance	R	6,4	Ohm
mechanical Q	Qm	1,33	
electrical Q	Qes	2,07	
Q total	Qts	0,81	
resonance frequency	fres	185	Hz
Equivalent volume of air	Vas	0,77	l
Effective piston area	S	75,8	cm^2
Moving mass	Mms	7,6	g
Suspension Compliance	Cms	0,1	mm/N
Mechanical resistance	Rms	6,63	kg/s^{-1}
Force factor	BL	5,23	NA^{-1}
Flux density	B	1,15	T
Voice coil diameter	∅	50,6	mm
Voice coil height	h	7,0	mm
Voice coil inductance	Lbm	0,12	mH
Weight of driver	M	1800	g



THIEL C² 77

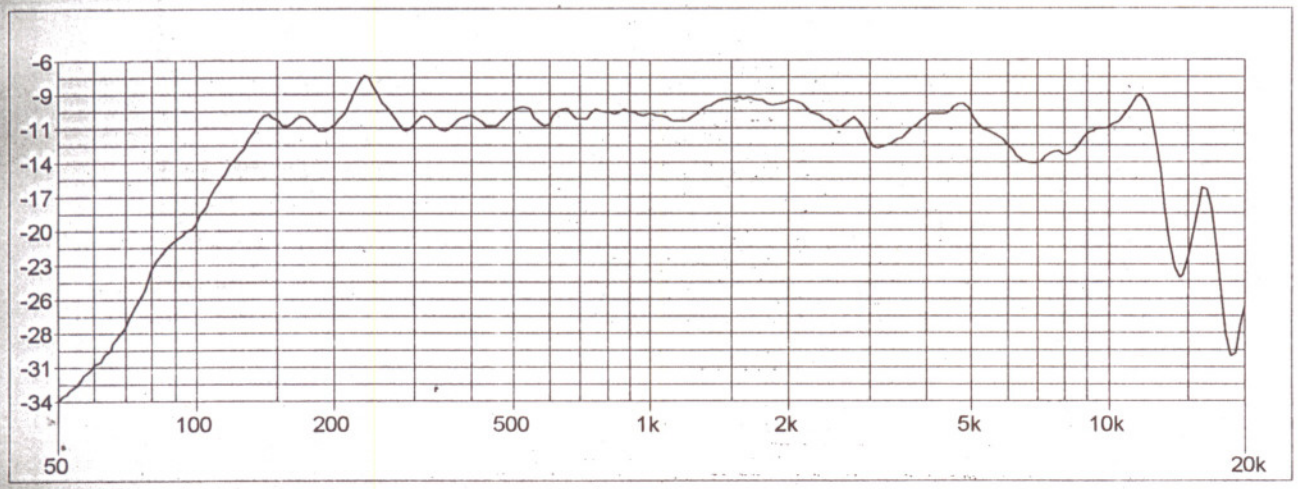
Datei : C77.OSE Werte : 400

Step response measurement, x-axis in msec, y-axis in mvolt



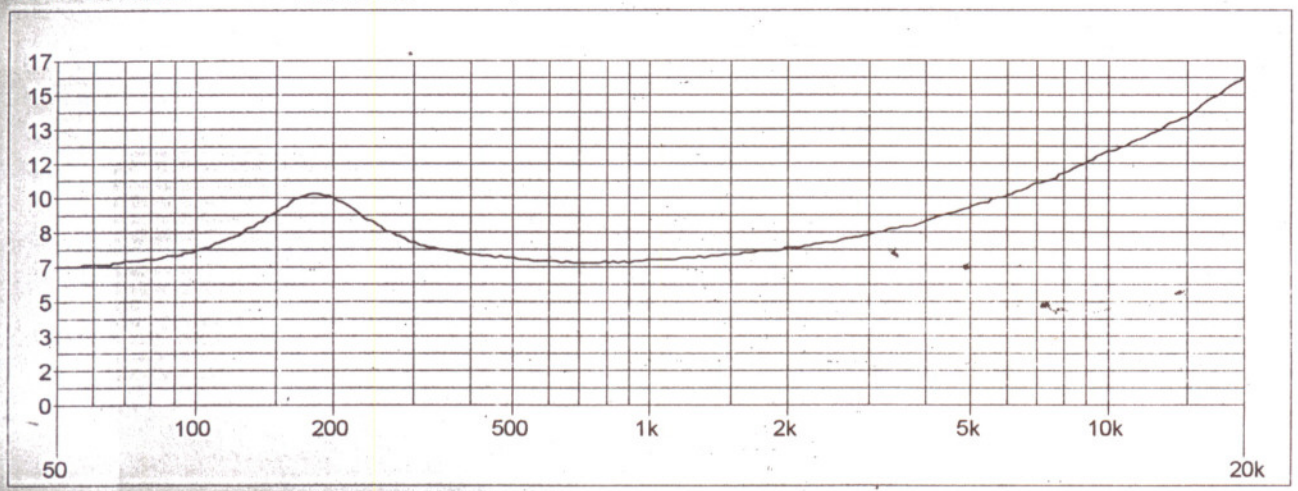
Datei : C77-8G.SIE Werte : 250

Amplitude response, x-axis in Hz, y-axis in dB



Datei : C77-8.IME Werte : 250

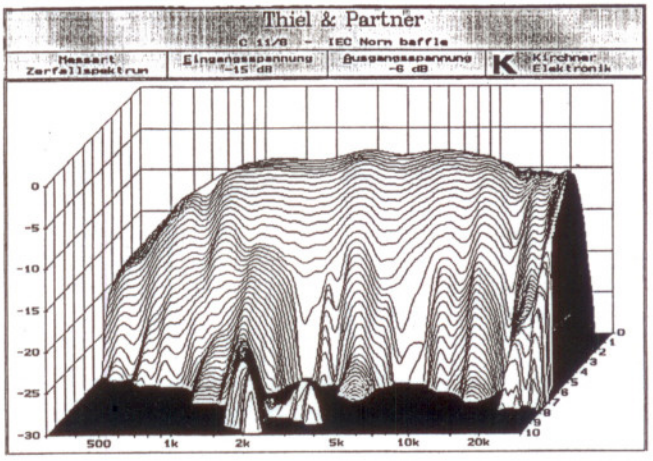
Impedance, x-axis in Hz, y-axis in Ohms



All acoustic measurements made with ½ inch Bruel & Kjaer microfone 4133 in 25 cm distance. Drivers are mounted in IEC norm-baffle unless otherwise stated. Data processing with Kirchner ATB 2.4 system.

C² 11

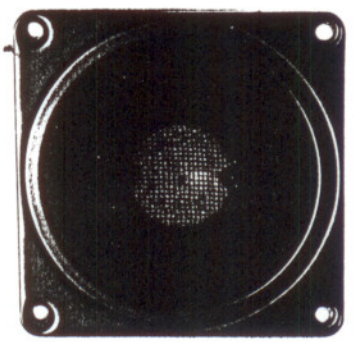
data sheet 1/95



Ferrofluid filled tweeter with 1 inch light weight concave ceramic dome. Usable in 3-way systems or small low-output 2-way designs. High resolution and very good dispersion up to 30 kHz. Low resonance frequency allows first or second order filtering and a crossover frequency as low as 2 kHz. The ultra hard ceramic dome material moves like a piston well above the audible frequency band and the high internal sound velocity features very low distortion and virtually no coloration.

Recommended frequency range: 2 kHz - 30 kHz

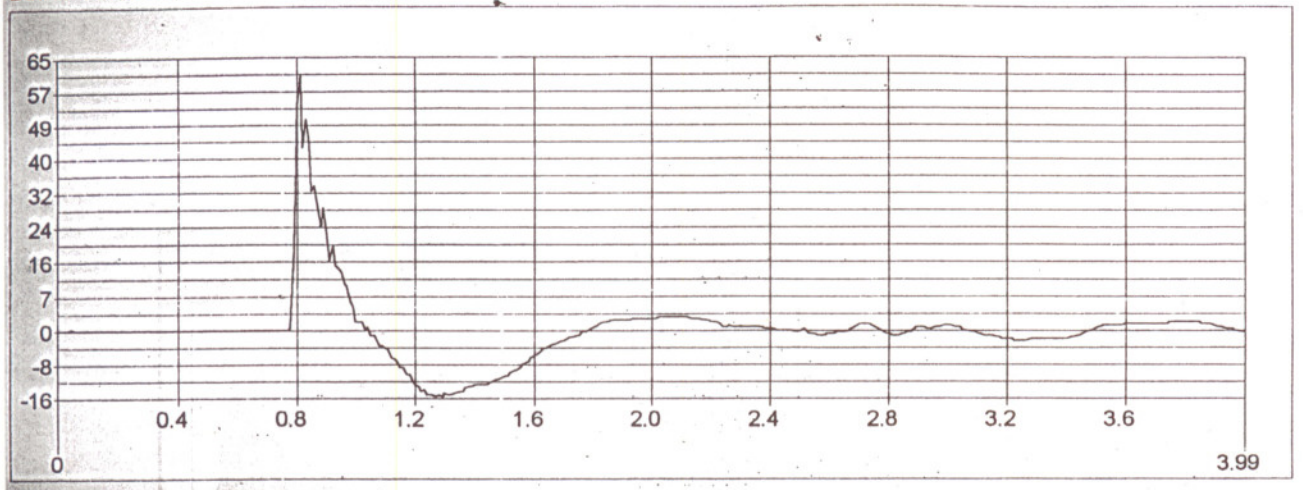
Power handling, filtered	P	100	W
Sensitivity	E	87	dB
DC resistance	R	6,0	Ohm
mechanical Q	Qm		
electrical Q	Qes		
Q total	Qts		
resonance frequency	fres	700	Hz
Equivalent volume of air	Vas		l
Effective piston area	S	6,1	cm^2
Moving mass	Mms	0,2	g
Suspension Compliance	Cms		mm/N
Mechanical resistance	Rms		kg/s^{-1}
Force factor	BL		NA^{-1}
Flux density	B	1,25	T
Voice coil diameter	∅	16,4	mm
Voice coil height	h	3,0	mm
Voice coil inductance	Lbm	0,04	mH
Weight of driver	M	480	g



THIEL C² 11

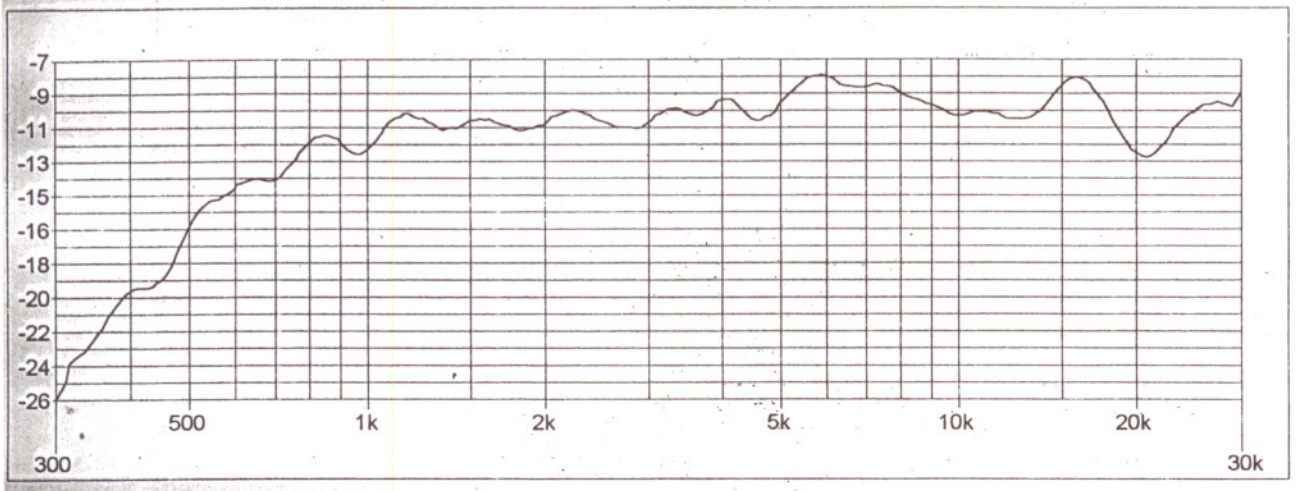
Datei : C11-8.OSE Werte : 400

Step response measurement, x-axis in msec, y-axis in mvolt



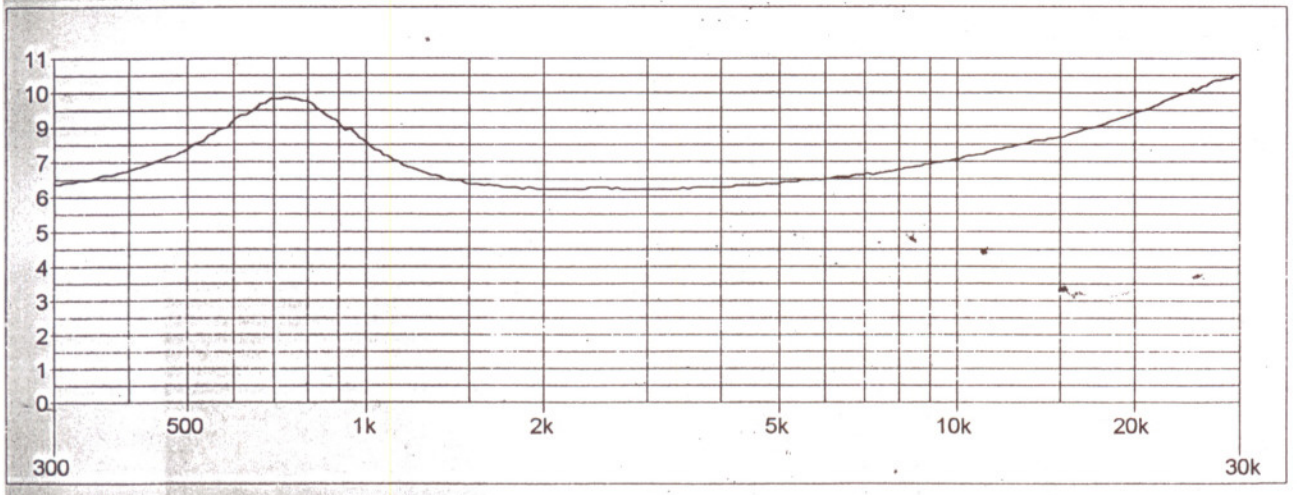
Datei : C11-8G.SIE Werte : 250

Amplitude response, x-axis in Hz, y-axis in dB



Datei : C11-8.IME Werte : 250

Impedance, x-axis in Hz, y-axis in Ohms



All acoustic measurements made with ½ inch Bruel & Kjaer microfone 4133 in 25 cm distance. Drivers are mounted in IEC norm-baffle unless otherwise stated. Data processing with Kirchner ATB 2.4 system.