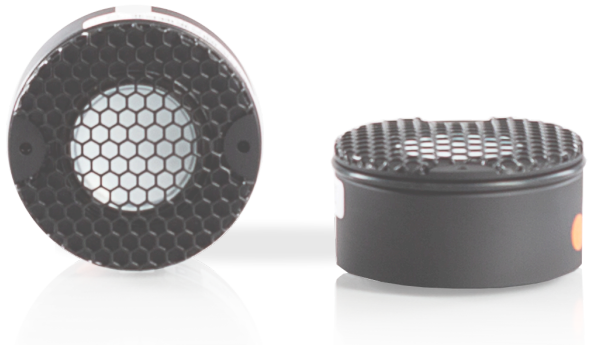
accuton® by Thiel & Partner



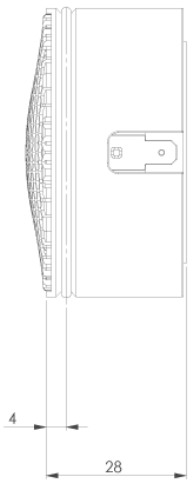
C30-6-358 CELL*

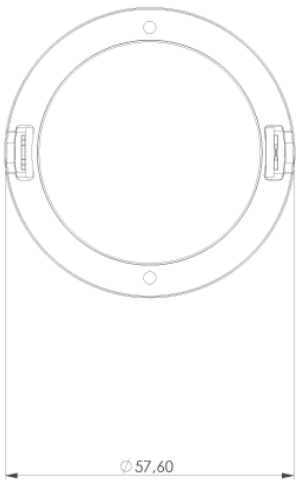
CERAMIC TWEETER

The C30-6-358 is a 1.2 inch tweeter with ultra hard **CERAMIC DOME** in a 58 mm body. A proprietary clamping technique provides easy mounting and adapting to individual frontplates. As the dome breakup is above the audible range and well damped, no dome cutouts are required. A unique FEA optimized underhung motor design with vented titanium voice coil former and double neodymium magnet guarantees low energy storage, excellent heat transfer and high excursion capability for low power compression and ultra low distortion around 0.07% @ 2.83V and 0.5% max. @ 110dB.

The new designed soft fabric surround centers the moving parts with improved linearity. We recommend our C30-6-358 in an application above 1800 Hz.

* also available as 4 Ω Version





recommended
cutout
diameter: 58 -0/+0.1

DOME MATERIAL	CERAMIC
APPLICATION	TWEETER
OVERALL DIAMETER	57.6 MM
CUTOUT DIAMETER	58 MM
OVERALL DEPTH	28 MM
MOTOR ASSEMBLY DEPTH	--
MOTOR ASSEMBLY DIAMETER	--

MAIN FEATURES

full featured cell concept
underhung motor design
vented vc & pole piece
no ferrofluid filling
1800 HZ - 25000 HZ

MECHANICAL DATA

Specification		Value	Unit
Overall diameter		57.6	mm
Cutout diameter		58	mm
Min. frontplate thickness		6	mm
Overall depth		28	mm
Motor assembly depth		--	mm
Motor assembly diameter		--	mm
Screwfitting		--	mm
Terminal		+: 4.8 x 0.8 / -: 2.8 x 0.8	mm
Shipping weight (pair)		0.6	Kg
Shipping box size (pair)		175/82/45	mm

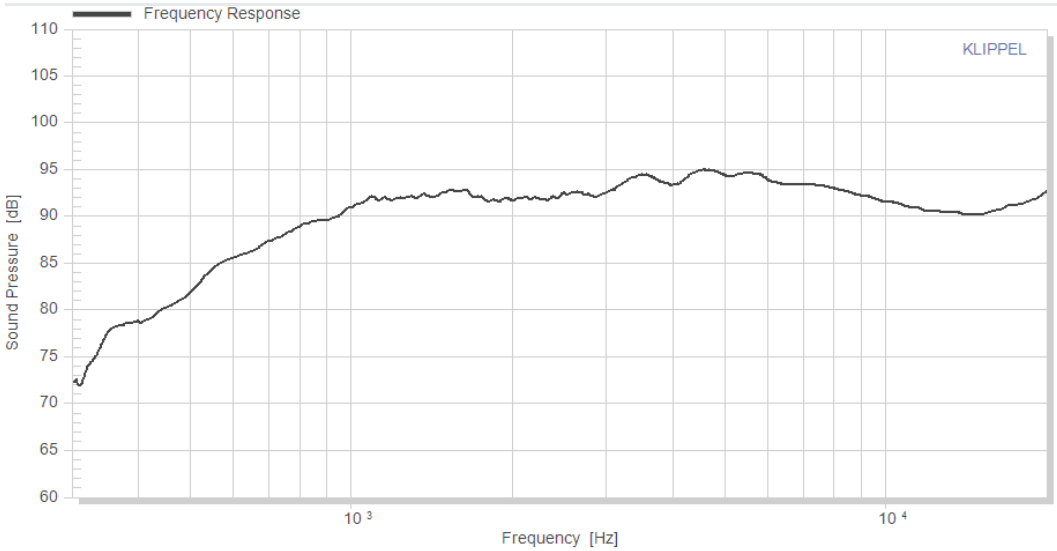
THIELE SMALL PARAMETERS

Specification		Value	Unit
Sensitivity (2.83V / 1m)	SPL	93.5	dB
DC-resistance	Re	5.23	Ohm
Resonance frequency	Fs	826	Hz
Equivalent volume of air	Vas	-	ltr
Mechanical Q	Qms	4.5	
Electrical Q	Qes	0.85	
Total Q	Qts	0.71	
Effective piston area	Sd	8.55	Cm2
Moving mass	Mms	0.39	g
Suspension compliance	CMs	0.145	mm/n
Mechanical resistance	Rms	0.97	Kg*s

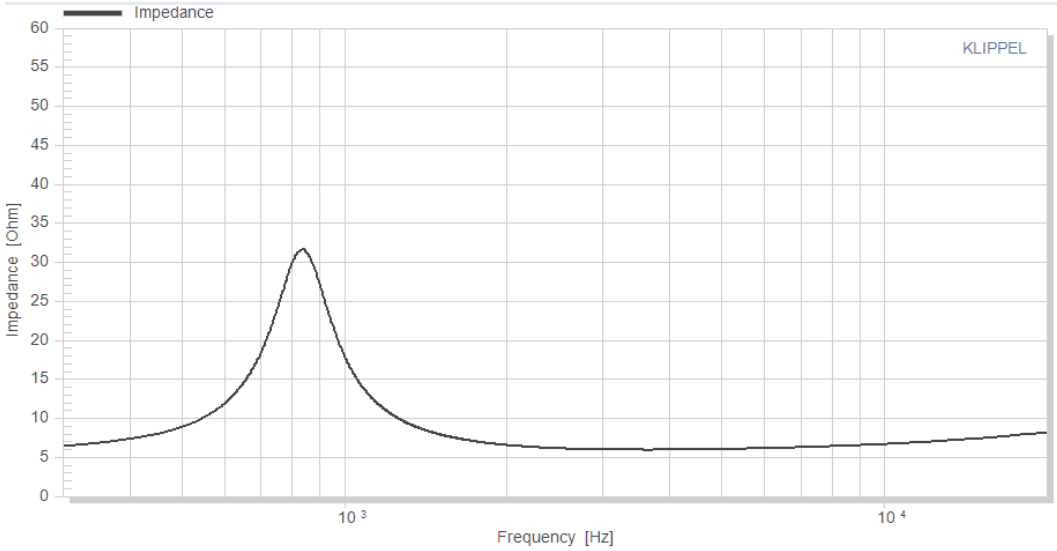
VOICE COIL PARAMETERS

Specification		Value	Unit
Power handling	P	120	W
Linear excursion	Xmax	+/-0.8	mm
Voice coil diameter		--	mm
Voice coil former material		Ti	
Voice coil material		Cu	
Voice coil inductance	Le	0.01	mH
Force factor	Bl	3.98	N/A
Motor type		Underhung	
Ferrofluid filling		No	

FREQUENCY RESPONSE [DB]



IMPEDANCE [OHM]



DISTORTION [%]