

APK 165 Ω2 2 WAY SYSTEM

From R&D to final product
KLIPPEL
since 2005

- 1 2Ω impedance, to fully exploit the 65 W power per channel at 2Ω of the AP8.9 bit amplifier.
- 2 75 Hz resonance frequency, to extend the frequency range down to low frequencies up to 50 Hz and increase the SPL in the low range.
- 3 25 mm mobile voice coil to maximize efficiency achieving 95 dB.
- 4 10 mm winding height mobile voice coil to increase maximum linear excursion up to 2,8 mm and minimize distortion, even at high listening levels.
- 5 APCX WF Ω2, dedicated woofer crossover with low-loss voice coils to shape the frequency response for optimal match with the tweeter.
- 6 APCX TW Ω2, tweeter crossover featuring the Hi-Contour function to enhance high frequencies, designed to achieve the correct timbre balance with rich low frequencies guaranteed by the woofer.
- 7 AP 1 tweeter with acoustic lens designed to balance the frequency response in the 10kHz - 13kHz range, to optimize the product's acoustic emission in the critical OEM placements, where the product performance is affected by the presence of the factory grille.
- 8 Connection cable built in the passive crossover and ending with "OEM Integration compliant" fast-on connectors. The ends, different in each of the two poles, eliminate any possible connection errors, speeding up the installation process and making it safe in the course of time.
- 9 AP 6.5 Ω2 woofer featuring water-repellent treated paper cone, with profile developed with FEM simulation technology and optimized with Klippel Scan Vibrometer.
- 10 Woofer with reduced mounting depth, providing ease of installation in OEM placements.
- 11 Woofer with TPU (Thermoplastic Polyurethane) surround, featuring the exclusive "Triple Wave" shallow profile, for maximum excursion linearity.
- 12 Woofer with compact basket, protected by abrasion-resistant and scratch-proof coating. Damping epoxy glue provides perfect coupling with the motor system.
- 13 Woofer with high current fast-on terminal with double contact on positive and negative poles for high flexibility and quick connection. The terminal features a temperature resistant plastic cover, protecting it against accidental short circuits.
- 14 Developed with the KLIPPEL suite.

* Grille included

TECHNICAL SPECIFICATIONS

Component	2-way System	
Size	mm (in.)	Woofer 165 (6.5) Tweeter 26 (1)
Power Handling	W peak	300
	W continuous	100
Impedance	Ω	2
Frequency Response	Hz	50 ÷ 20k
Crossover type	Cut Off @ 4.5 / 5 kHz (Hi-Contour ON/OFF) -6dB Oct.	
Component adjustment	dB	+2; 0
Woofer Magnet size	mm	85 x 32 x 15
D x d x h	(in.)	(3.35 x 1.26 x 0.59)
Tweeter Magnet size	mm	19 x 3
D x d x h	(in.)	(0.75 x 0.12)
Weight of one speaker	kg (lb)	Woofer 0,78 (1.72) Tweeter 0,04 (0.09)
Voice Coil Ø	mm (in.)	Woofer 25 (1) Tweeter 20 (0.8)



ELECTRO-ACOUSTIC PARAMETERS

D	mm	127
Xmax	mm	±2,8
Re	Ω	2,1
Fs	Hz	75
Le	mH	0,15
Vas	l	8,5
Mms	g	10,5
Cms	mm/N	0,4
BL	T·m	3,8
Qts		0,63
Qes		0,73
Qms		4,8
Spl	dB	95