

Model Number: P835028
Description: MAC SSW 10 inch Woofer

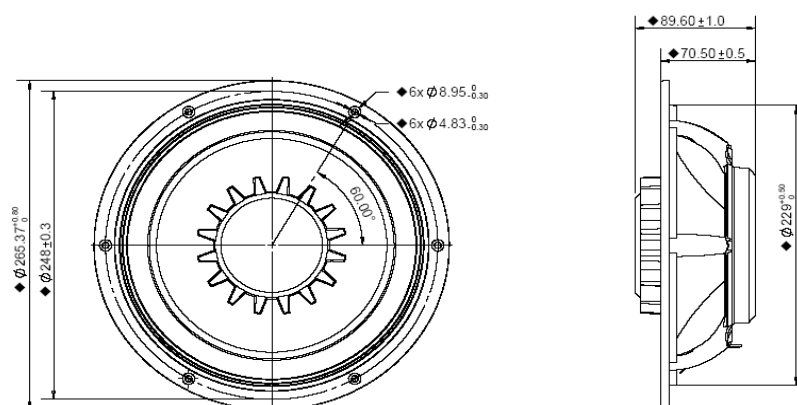
Revision: rev 2_0
Date: May 7,2010



This 10 inch motor-above-cone (MAC) shallow subwoofer (SSW), features a cast aluminium basket for structural strength, and a heat-sinked neodymium motor for high power handling capability. The intended usage of this product is for in-wall applications.



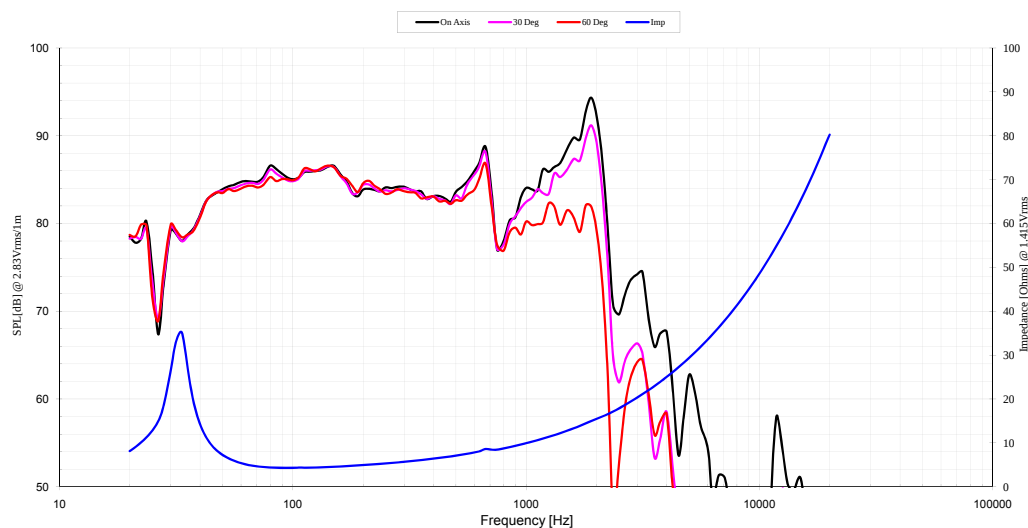
Mechanical 2D Drawing:



Specifications:

DC Resistance	R_{EVC}	Ω	3.1	Energy Bandwidth Product	EBP	$(1/Q_{\text{ES}}) \cdot f_s$	61
Minimum Impedance	Z_{min}	Ω	4.28	Moving Mass	M_{ms}	g	106.52
Voice Coil Inductance	L_e	mH	0.91	Suspension Compliance	C_{ms}	um/N	204.4
Resonant Frequency	f_s	Hz	34	Effective Cone Diameter	D	cm	20.0
Mechanical Q Factor	Q_{ms}	-	6.8	Effective Piston Area	S_D	cm ²	314.2
Electrical Q Factor	Q_{ES}	-	0.55	Equivalent Volume	V_{as}	L	28.34
Total Q Factor	Q_{ts}	-	0.51	Motor Force Factor	BL	T·m	11.33
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	66	Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	41.23
Half Space Sensitivity @ 2.83V	$\text{dB} @ 2.83V/1m$	dB	85.4	Voice Coil Former Material	VC_{fm}	-	TiI / glass fiber
Rated Noise Power (IEC 2685 18.1)	P	W	160	Voice Coil Inner Diameter	VC_d	mm	51.32
Test Spectrum Bandwidth	20~500	12 dB/Oct		Maximum Linear Excursion	X_{max}	mm	9.25
				Transducer Mass	-	kg	2.34

Frequency and Impedance Response:



F088-0713A