

Type Number : **P830890**

HDS 6.5" Bass/Mid Woofer

Features:

A High End mid-woofer with rigid aerodynamic cast aluminum basket profile, and ventilated spider. The phase plug eliminates compression under the dust cap and serves as heat sink for the coil to reduce power compression. The new peerless composite polyclone improves accuracy and consistency of sound reproduction over the entire frequency range, creating a more "musical" driver. Another feature of the driver is its very low distortion magnet system with aluminum shortening ring and copper capped pole piece, which both contribute as heat sinks for the voice coil, reducing power compression.



SPL vs Freq



STONES SOUNDS STUDIO

LMS

Max

Notes

- 5: 830890_freq_0deg
- 6: 830890_freq_30deg
- 7: 830890_freq_60deg

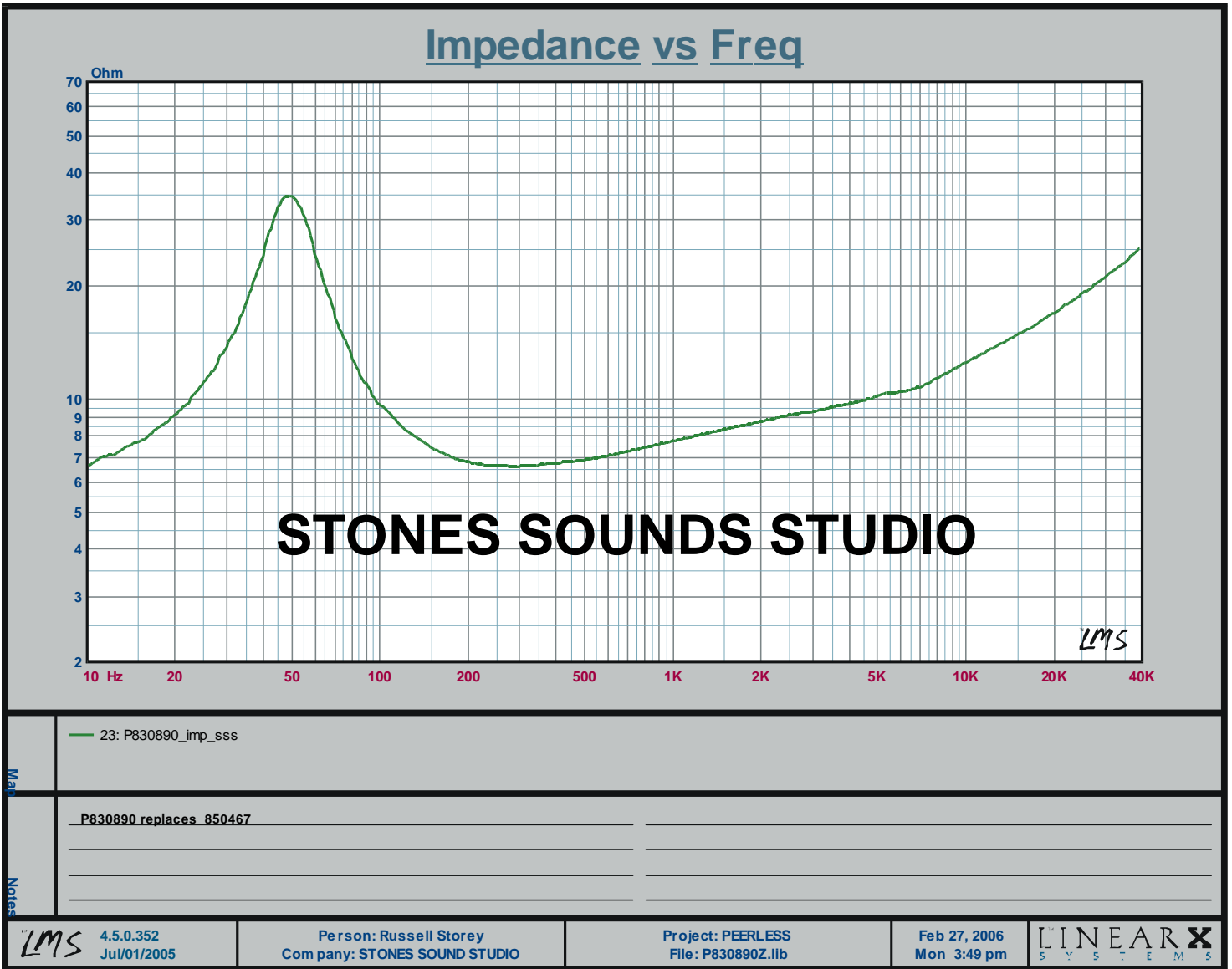
LMS 4.5.0.352
Jul/01/2005

Person: Russell Storey
Company: STONES SOUND STUDIO

Project: 830890 SPL
File: 830890_spl_06.lib

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Fri 6:15 pm

LINEAR X
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P830890 PEERLESS (6.5")		T/S	APPLICATION NOTES :
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Nominal Impedance ohms	8.0	SIZE (DIA) 6.5" 164mm	Woofer bass/mid
Re (dc voice coil resistance) ohms	5.9	CONE Composite poly cone	
Le (voice coil Ind @ 1khz) mH	0.285	HOLE CUT OUT 155mm	
Fs (resonance frequency) Hz	34.30		
Qms (mech Q factor)	2.218	RECOMMENDED ENCLOSURE	
Qes (elect Q factor)	0.466	TYPE VENTED	
Qts (total Q factor)	0.385	VOLUME 12 to 20Ltrs	
Mms (moving mass) gms	17.46	BOX DIMENSIONS (HxWxD)	
Mmd (cone mass) gms	16.50	PORT DIMENSIONS (WxD)	
Cms (Susp compliance) uM / N	655.99	PORT (Fs)	
SPL (Sensitivity) db	88.05		
D (cone rad diameter) mm	135		
Sd (piston area) cm ²	141		
Vas (Eq volume) ltrs	18.52		
Bl (force factor) T/M	8.0863		
Voice (coil diameter) mm	33		
Voice (coil length) mm	17		
Xmax (pk/pk) excursion mm	5.5		
Power rating (watts) rms	150		

Mechanical Dimensions: HDS P830891 5"

