

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



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

Max

Notes

LMS

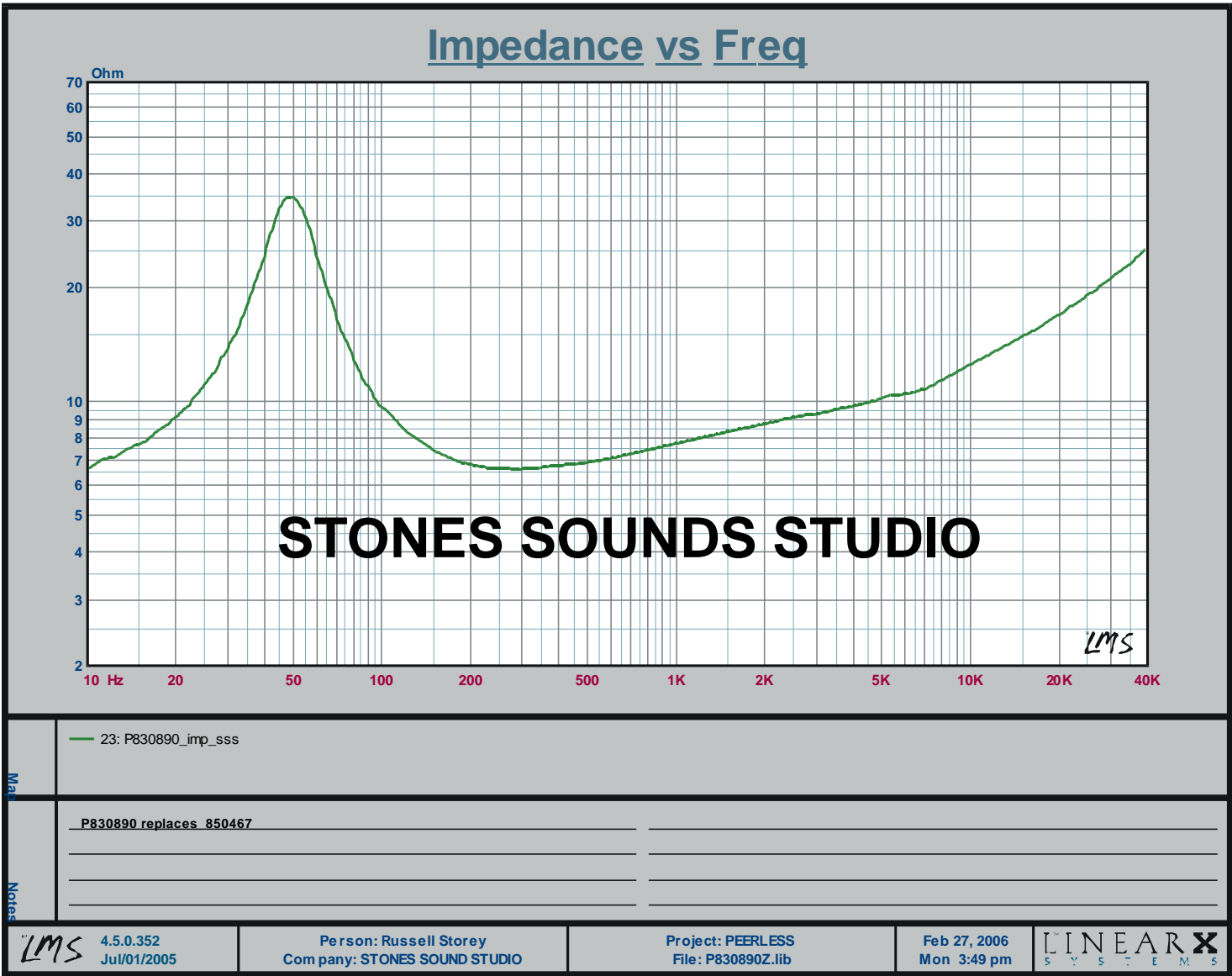
4.5.0.352
Jul/01/2005

Person: Russell Storey
Company: STONES SOUND STUDIO

Project: 830890 SPL
File: 830890_spl_06.lib

Feb 24, 2006
Fri 6:15 pm

LINEAR X
S Y S T E M S



P830890 PEERLESS
(6.5")

T/S

APPLICATION NOTES :

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	
BI (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	

STONES SOUND STUDIO data sheet



Mechanical Dimensions: HDS P830891 5"

