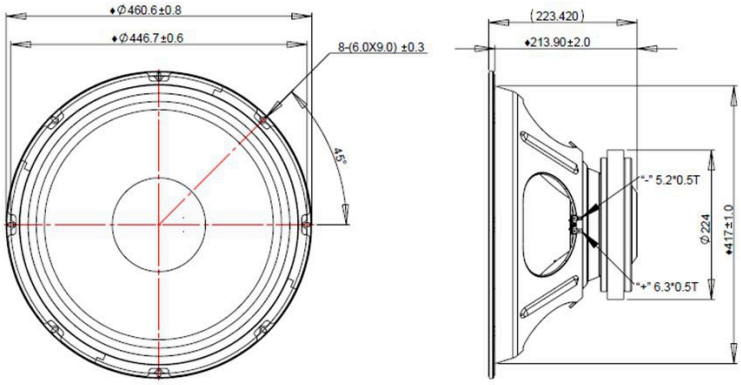
FSL-1830R09-08

PROFESSIONAL SUBWOOFER

- Ferrite Magnet
- High Power and Thermal Handling
- Optimized for Pro Applications

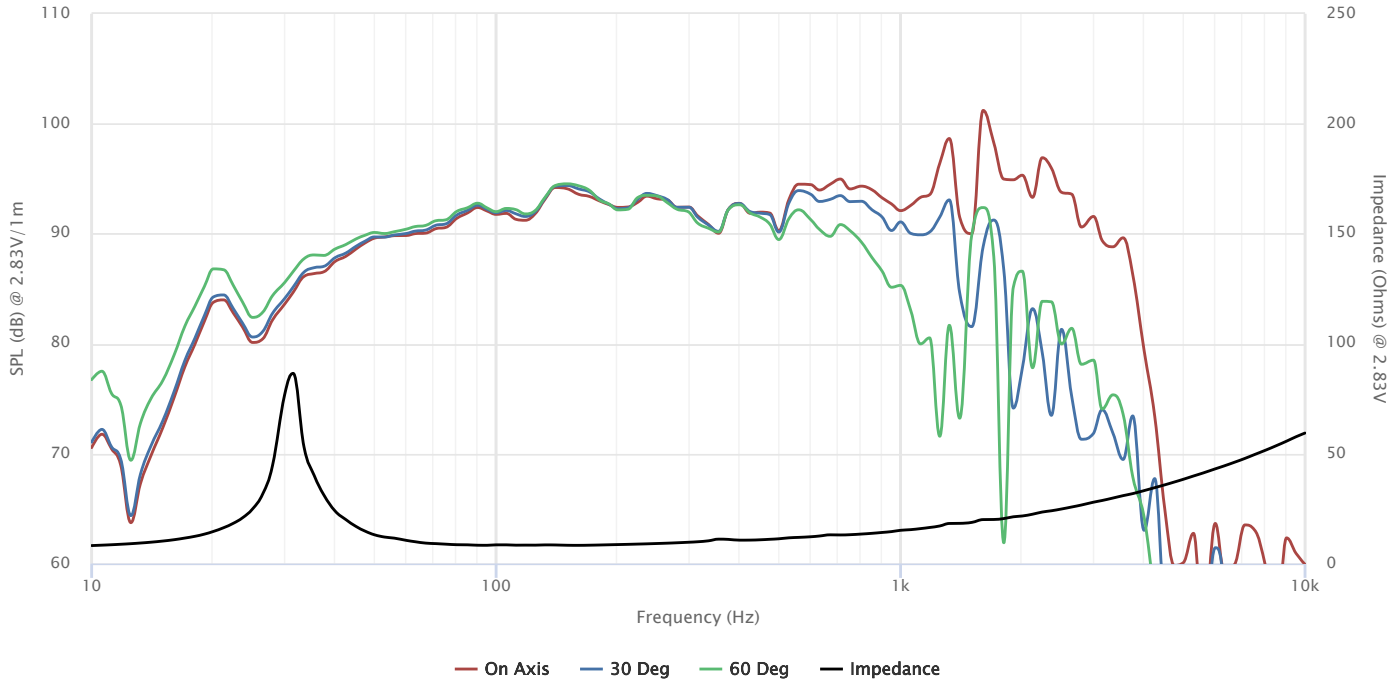


SPECIFICATIONS

Transducer Size		18	in
Impedance		8	Ω
Frequency Range [1]		20 - 2000	Hz
Sensitivity [2] **(2.83V | 1W @ 1m)**		93.7 | 93.7	dB
Power Rating (AES2-1984)		600	W
Voice Coil Size		75.7	mm
Air Gap | Winding Height	H_{ag} | H_{vc}	10 | 35.2	mm
Net Weight		11.6	kg

PARAMETERS [3]

Eff. Piston Area	S_d	1130	cm^2
DC Resistance	R_e	6.8	Ω
Minimum Impedance	Z_{min}	8.3	Ω
Inductance	L_e	1.42	mH
Resonance Frequency [4]	F_s	33	Hz
Mechanical Q Factor	Q_{ms}	15.9	-
Electrical Q Factor	Q_{es}	0.602	-
Total Q Factor	Q_{ts}	0.58	-
Moving Mass	M_{ms}	189	g
Compliance	C_{ms}	120	µm/N
Equivalent Volume	V_{as}	220	L
Motor Force Factor	Bl	21.1	Tm
Motor Efficiency	β	65.7	$(Bl)^2 / R_e$
Linear Excursion [5]	X_{max}	15.9	mm
Max Mechanical Excursion [6]	X_{mech}	20	mm



Details on this spec sheet are for reference only and should not be used for setting production limits. Specifications and product cosmetics are subject to change without notice. Peerless is a registered trademark of Tymphany Enterprises. All measurements conducted in test lab at 25°C ±10°C, 50%RH ±10%. [1] Specified by Engineering as linear working range of transducer. [2] Measured at 2.83V at 1m and normalized to 1W with respect to nominal impedance. [3] Measured in Free Air without preconditioning, therefore subject to some deviation. [4] Impedance and Fs value measured under different conditions. [5] Equal/Overhung: $(H_{vc} - H_{ag})/2 + H_{ag}/3$. Underhung: $(H_{ag} - H_{vc})/2 + H_{vc}/3$. [6] Mechanically limited excursion (e.g. bottoming, spider crash).