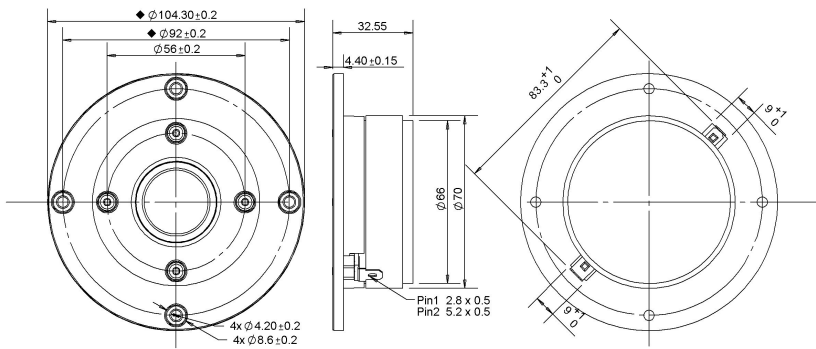


- Ferrite Magnet
- Ferrofluid Filled Motor
- Fabric Diaphragm
- High Sensitivity
- Faceplate

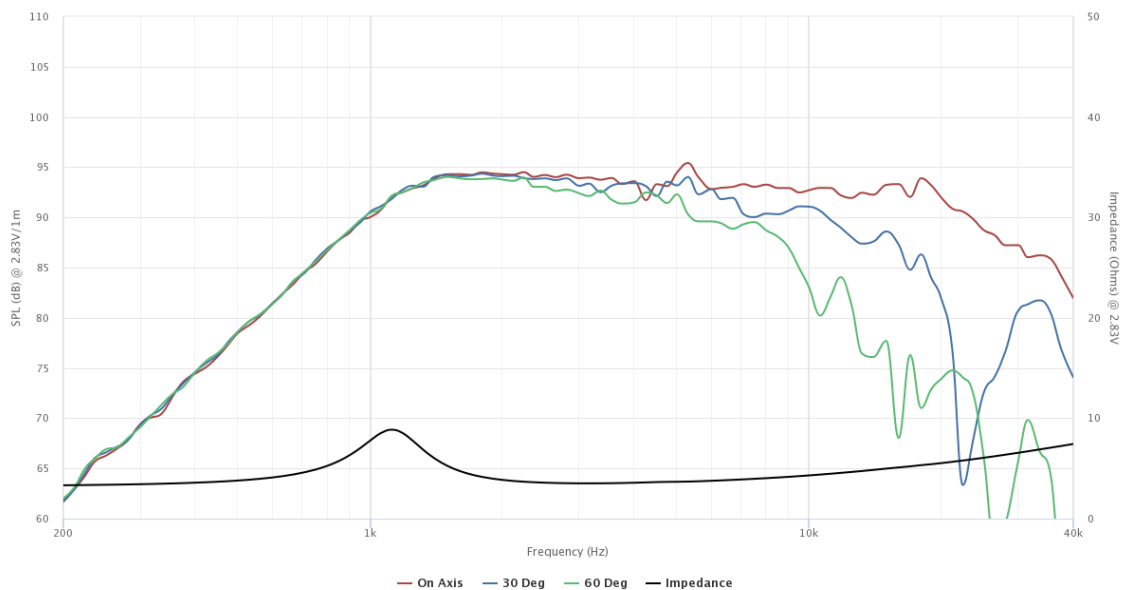


SPECIFICATIONS

Transducer Size	1	in
Impedance	4	Ω
Frequency Range ¹	2000 - 20000	Hz
Sensitivity ² (2.83V 1W @ 1m)	93.9 90.9	dB
Power Rating (IEC 268-5)	50	W
Voice Coil Size	25.4	mm
Air Gap Winding Height	H_{ag} H_{vc}	3 2
Net Weight	0.51	kg

PARAMETERS ³

Eff. Piston Area	S_d	6.16	cm ²
DC Resistance	R_e	3.2	Ω
Minimum Impedance	Z_{min}	3.5	Ω
Inductance	L_e	0.029	mH
Resonance Frequency ⁴	F_s	1100	Hz
Mechanical Q Factor	Q_{ms}	2.75	-
Electrical Q Factor	Q_{es}	1.53	-
Total Q Factor	Q_{ts}	0.98	-
Moving Mass	M_{ms}	0.347	g
Compliance	C_{ms}	58	$\mu\text{m}/\text{N}$
Equivalent Volume	V_{as}	0.003	L
Motor Force Factor	Bl	2.24	Tm
Motor Efficiency	β	1.59	$(Bl)^2 / R_e$
Linear Excursion ⁵	X_{max}	1.17	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 Tympany 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 F_s 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).