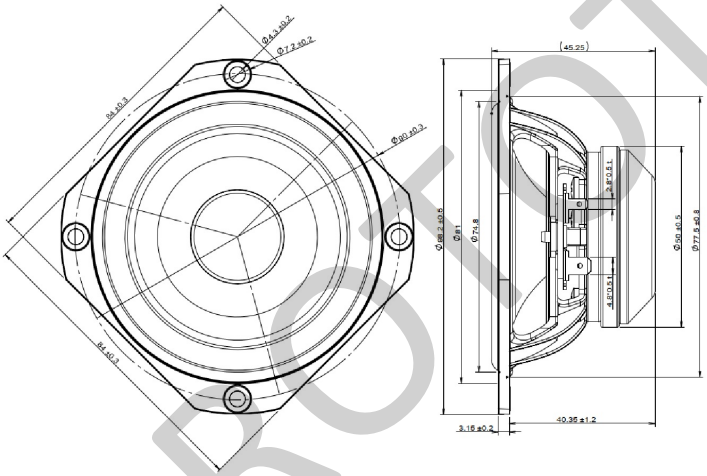
Peerless

TG9FC02-04

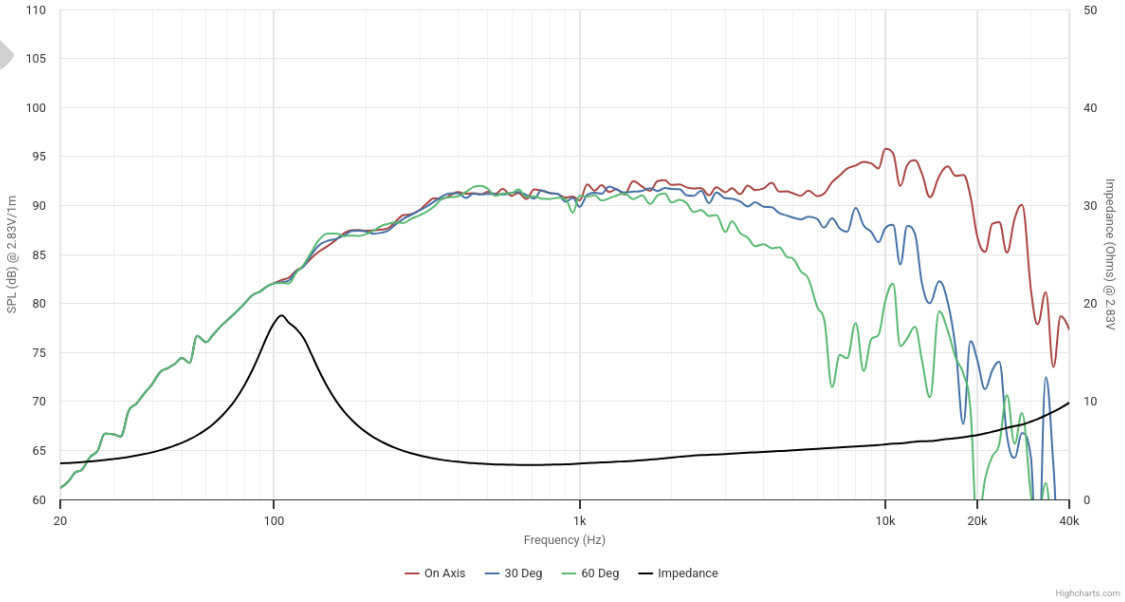
PROFESSIONAL FULLRANGE

- Neodymium Motor
- Copper Cap
- Glass Fibre Cone
- NBR Rubber Surround





SPECIFICATIONS			
Transducer Size		4	in
Impedance		4	Ω
Frequency Range [1]		200 - 9000	Hz
Sensitivity [2] **(2.83V | 1W @ 1m)**		91.3 | 88.3	dB
Power Rating (AES2-1984)		25	W
Voice Coil Size		19.4	mm
Air Gap | Winding Height	H_{ag} | H_{vc}	4 | 7.4	mm
Net Weight		240	g
PARAMETERS [3]			
Eff. Piston Area	S_d	37.4	cm^2
DC Resistance	R_e	3.1	Ω
Minimum Impedance	Z_{min}	3.5	Ω
Inductance	L_e	0.042	mH
Resonance Frequency [4]	F_s	150	Hz
Mechanical Q Factor	Q_{ms}	2.55	-
Electrical Q Factor	Q_{es}	0.524	-
Total Q Factor	Q_{ts}	0.43	-
Moving Mass	M_{ms}	2.77	g
Compliance	C_{ms}	430	µm/N
Equivalent Volume	V_{as}	0.844	L
Motor Force Factor	Bl	3.86	Tm
Motor Efficiency	β	4.86	$(Bl)^2 / R_e$
Linear Excursion [5]	X_{max}	3.03	mm
Max Mechanical Excursion [6]	X_{mech}	5.5	mm



PROTOTYPE

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).