

SYMBOLS

x = distance from throat, inches	u = frequency ratio, f/f_0
x_0 = cutoff parameter = $2,155/f_0$	M_d = moving system mass, grams
f_0 = horn cutoff frequency	S_c = cavity stiffness
A_x = horn area at distance x	S_d = suspension system stiffness
A_m = mouth area, square inches	S_v = throat air chamber stiffness
A_t = throat area, square inches	R_m = mechanical loss resistance
A_d = effective diaphragm area, square inches	R_c = voice coil resistance
D_d = effective diaphragm diameter, inches	L_c = voice coil inductance
D_m = mouth diameter, inches	B = flux density, gauss
T = flare parameter	l = conductor length, centimeters
Z_h = horn impedance as seen by driver	η = efficiency
R_h = resistive component of horn impedance	f_r = unloaded driver resonant frequency
X_h = reactive component of horn impedance	V = throat air chamber volume, cubic inches
Z_d = driver mechanical impedance	h = diaphragm-chamber clearance, inches
X_d = driver mechanical reactance	