



Driver Parameters

Driver: Adire Audio Shiva 12D8

Nominal Diameter	D = 12	in
Nominal Power	P = 300	Watts
Sensitivity (1W/1m)	SPL = 88.1	dB SPL
Free Air Resonance	f(s) = 27	Hz
Total Q	Q(ts) = 0.44	
Electrical Q	Q(es) = 0.46	
Mechanical Q	Q(ms) = 8.51	
Equivalent Volume	V(as) = 3.63	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 0	Ohms
Max Thermal Power	P(t) = 500	Watts
Max Linear Excursion	X(max) = 14.2	mm
Max Excursion	X(lim) = 0	mm
Voice Coil Diam.	D(vc) = 0	mm

Driver Notes:

NOTE: X(max) was estimated based on the nominal driver diameter.

NOTE: X(max) was estimated based on the nominal driver

System Notes:

Box Parameters

System Type: 4th Order Vented Box

Box Volume	V(B) = 5	cu ft
Closed Box Q	Q(tc) = 0.5781	
Box Frequency	F(B) = 25	Hz
Min Rec Vent Area	S(vMin) = 20.2	sq in
Vent Surface Area	S(v) = 28.27	sq in
Vent Length	L(v) = 20.1	in
Compliance Ratio	alpha = 0.726	
Box Loss Q	Q(B) = 7	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 300	Watts
SPL Distance	D = 1	m

Joe's Subs

2261 Kristin Drive
Troy, MI, 48084
USA

248-459-9075

System Name:

4th Order Vented Box

Designer: Joe Gerhardstein

Title: Senior Designer

Rev Date:

Rev: