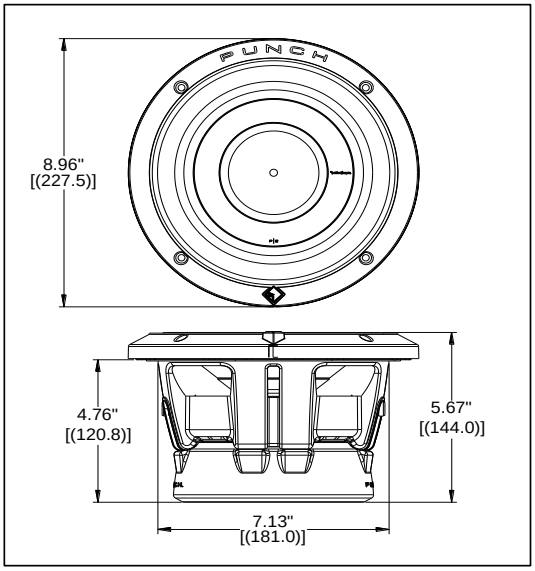
PRODUCT BRIEF | P2D4-8 | 2011

Model: P2D4-8
Type: DVC Subwoofer
Power Rating: 250 Watts (RMS)
Impedance: (2) 4 ohms



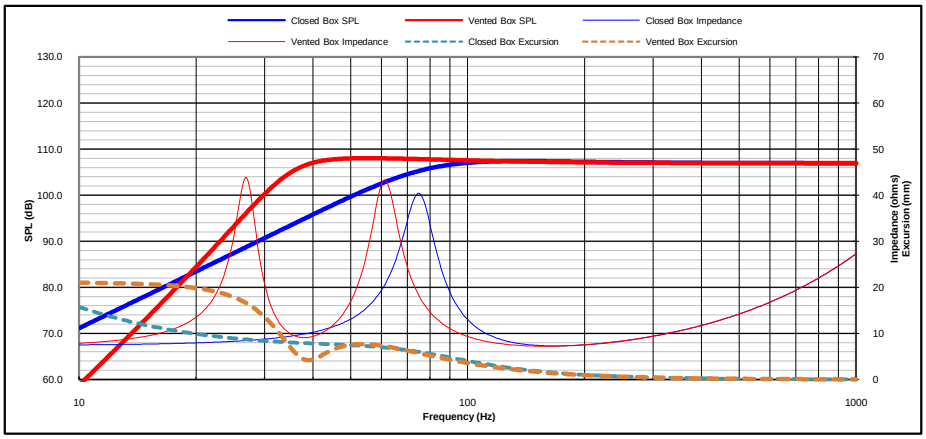
Features

- High modulus Kevlar™ re-inforced paper-pulp cone.
- Dual tear & fatigue resistant poly-cotton spider.
- Tall-profile VAST™ Santoprene™ surround
- High temp 2.25" voice coil w/ spun-laced Nomex™ insulating re-inforcement collar
- Optimized motor magnetics with extended pole and bumped vented backplate.
- Fatigue resistant and reduced strain "stitched on" flexible lead wire design.
- Proprietary spider venting/cooling technique
- Multi-point high-temp/high-strength neck joint bonding technique.
- Sturdy 16 guage compound bend frame geometry.
- Semi-flexible, PVC removable protective motor cover.
- Proprietary all metal, radially oriented compression input terminal assembly.
- Flex-fit™ Mounting pattern
- Die-Cast aluminum soft-touch painted trim ring allows for optional integrated grill

Recommended Applications

Enclosure	Volume (Vb)		Tuning(Fb)	System	-3dB (F_3)	Port Dia.		Port Length	
	Liters	cu.ft.	Hz	(Qtc)	Hz	in.	cm	in.	cm
Sealed:	6.5	0.23	66.1	0.82	66.4	-	-	-	-
Ported:	18.4	0.65	38.5	-	33.7	2.0	50.8	8.8	22.3

SPL & Excursion (at 250 Watts) / Impedance (at 1 Watt)



Technical Specifications

Voice Coil Diameter:	2.25	57.7	inches | mm
Voice Coil Height:	0.94	23.9	inches | mm
Voice Coil Layers:	4		layers
Magnetic Gap Height:	0.39	10.0	inches | mm
Linear Excursion, (Xmax):	0.28	7.0	inches | mm
Maximum Excursion (mech), pk-pk:	1.90	48.3	inches | mm
Magnet Weight:	49	1.38	oz. | kg
Woofer Displacement:	2	0.071	liters | cubic ft.
Net Weight:	9.5	4.3	lbs. | kg
Power Rating:	250	500	RMS | Peak

Thiele-Small Specifications

Fs (Hz):	43.0
Re (Ohms):	6.90
Le (mH):	4.3
Qts:	0.52
Qes:	0.58
Qms:	5.40
Cms (mm/N):	0.14
Vas (L):	9.9
Mms (g):	96.2
Mmd (g):	94.3
Rms (kg/s):	4.8
Airload (g):	1.9
No (%):	0.12
SPL (dB - 1W/1M):	83.0
BL (T*M):	17.5
*$Xmax_{10}$ (mm):	7.7
Sd (cm2):	221
EBP:	74
Krm (mOhms):	0.13
Erm:	1.46
Kxm (mH):	29.1
Exm:	0.81
Rem (Ohms):	45.63

* All parameters are derived using a laser velocity measurement method and verified with actual measured Mmd and Re. All dual voice coil models are wired in series. $Xmax_{10}$ represents actual effective excursion at <10% THD.

Above specifications and dimensions comply with the CEA-2031 standard.

Specifications subject to change without notice.

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