

Model: R2SD4-12

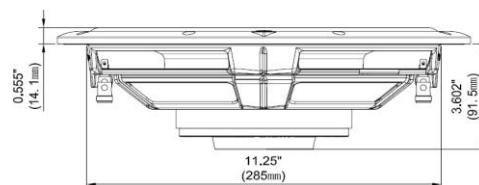
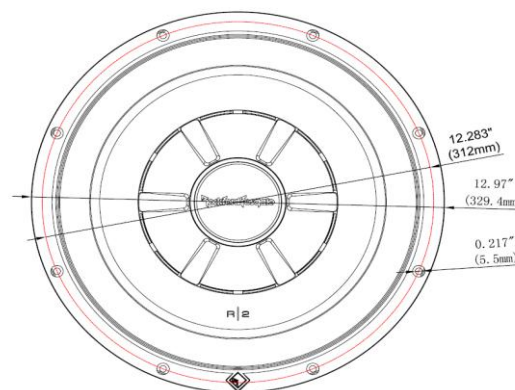
Type: "Shallow" DVC Subwoofer

Power Rating: 250 Watts (RMS)

Impedance: (2) 4 ohms

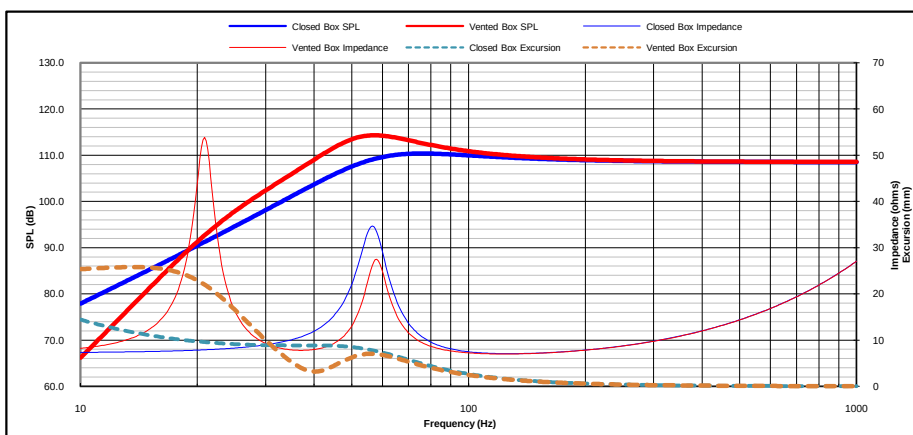

Features

- Unique low profile "inset" design, high excursion woofer
- Monolithic injection molded polypropylene cone.
- Proprietary attached tear & fatigue resistant poly-cotton spider.
- High density compressed half-roll sealed poly-foam surround.
- High temp copper voice coil with aluminum former
- Optimized motor magnetics with extended pole and bumped vented backplate.
- Fatigue resistant and reduced strain "stitched on" flexible lead wire design.
- Multi-point high-temp/high-strength neck joint bonding technique.
- Heavy guage stamped steel frame
- All metal compression input terminal assembly.
- Suited for sealed enclosure applications, capable for use in vented boxes as well
- Semi-flexible PVC integrated trim ring



Recommended Applications

Enclosure	Volume (Vb)		Tuning(Fb) Hz	System (Qtc)	-3dB (F3) Hz	Port Dia.		Port Length	
	Liters	cu.ft.				in.	cm	in.	cm
Sealed:	25.5	0.90	44.1	1.06	44.1	-	-	-	-
Ported:	50.7	1.79	40.0	-	34.4	4.0	101.6	11.8	30.1

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


Technical Specifications

Voice Coil Diameter:	1.988	50.495	inches mm
Voice Coil Height:	1.059	26.9	inches mm
Voice Coil Layers:	4		layers
Magnetic Gap Height:	0.307	7.8	inches mm
Linear Excursion, (Xmax):	0.376	9.6	inches mm
Maximum Excursion (mech), pk-pk:	1.575	40.0	inches mm
Magnet Weight:	51	1.45	oz. kg
Woofer Displacement:	1.1	0.039	liters cubic ft.
Net Weight:	8.51	3.9	lbs. kg
Power Rating:	250	500	RMS Peak

Thiele-Small Specifications

Fs (Hz):	30.3
Re (Ohms):	6.80
Le (mH):	4.2
Qts:	0.65
Qes:	0.72
Qms:	7.00
Cms (mm/N):	0.16
Vas (L):	65.4
Mms (g):	172.8
Mmd (g):	166.4
Rms (kg/s):	4.7
Airload (g):	6.3
No (%):	0.24
SPL (dB - 1W/1M):	85
BL (T*M):	17.6
*Xmax ₁₀ (mm):	10.0
Sd (cm ²):	534.8
EBP:	42
Krm (mOhms):	1.80
Erm:	0.95
Kxm (mH):	31.1
Exm:	0.72
Rem (Ohms):	7.30

* 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. Xmax₁₀ represents actual effective excursion at <10% THD.