

Carvin Thiele/Small Parameters and Speaker Specifications

Part Number (Model)	Mechanical Parameters									Electrical Parameters						Electro-Mechanical Parameters		
	Fs (Hz)	Qms	Vas (L)	Cms (mm/N)	Mms (g)	Rms (kg/s)	Xmax (mm)	VC Dia. (in.)	Sd (sq.cm)	Qes	Re (ohms)	Le (mH)	Z (ohms)	Bl (Tm)	Pe (W)	Qts	no %	SPL 1w/1m (dB)
PS6.5	68.64	2.25	11.89	0.5275	10.19	1.9542	0.4	1.5	126.68	0.22	6.86	0.54	8	11.68	150	0.2	1.68	94.2
PS8	75	5.68	23.87	0.3189	14.12	1.1718	0.9	2	230.87	0.39	5.58	0.55	8	9.78	200	0.36	2.5	96
PS8-16	79.4	3.86	15.48	0.2404	16.7	2.1622	0.8	2	214.08	0.48	10.05	1.08	16	13.25	200	0.42	1.57	93.9
PS10	57	7.59	55.33	0.3312	23.54	1.1111	4	2	344.88	0.54	5.85	0.67	8	9.6	200	0.5	1.85	94.7
PS12	46.81	4.95	140.09	0.3519	32.8	1.9525	0.9	2	532.36	0.47	7.03	0.85	8	12.04	300	0.43	2.95	96.7
PS12B	34.72	5.79	182.23	0.4808	43.7	1.6464	3	2	519.45	0.42	5.62	1	8	11.33	300	0.39	1.76	94.5
PS15	43	4.41	204.33	0.1984	69.05	4.2342	3.7	2.5	856.34	0.51	5.31	1.09	8	13.88	400	0.46	3.04	96.8
PS15C-8	33.5	6.2	353.96	0.3395	66.49	2.2584	1.8	2.5	856.36	0.36	5.58	1.18	8	14.68	600	0.34	3.54	97.5
PS15C-4	37.78	5.65	260.67	0.2531	70.1	2.9437	1.6	2.5	856.34	0.41	3.05	0.63	4	11.16	600	0.38	3.33	97.2
PS15E-8	33.5	6.2	353.96	0.3395	66.49	2.2584	1.8	2.5	856.36	0.36	5.58	0.65	8	14.68	600	0.34	3.54	97.5
PS15E-4	37.78	5.65	260.67	0.2531	70.1	2.9437	1.6	2.5	856.34	0.41	3.05	0.63	4	11.16	600	0.38	3.33	97.2
PS18H-8	28	5.53	354	0.19	171	5.46	5.5	4	1159	0.25	5.1	1.67	8	25	800	0.24	4.53	98.2
PS18H-4	28	5.53	354	0.19	171	5.46	5.5	4	1159	0.25	3.5	1.67	4	20.52	800	0.24	4.53	98.2
PSC18-8	27.96	8.89	596.18	0.19	102.57	5.46	5.5	4	1159	0.28	5.9	1.36	8	25	800	0.27	4.53	98.6
PS1C8-4	28.5	8.12	524.34	0.19	105.24	5.46	5.4	4	1159	0.37	3.21	1.01	4	20.52	500	0.3	4.41	98.5
PS18-4	35	2.5	532		128		6	3		0.59	5.1	1.02	4		500	0.48	3.531	97
PS18-8	35	2.5	532		128		6	3		0.59	5.1	1.02	8		500	0.48	3.531	97
VL10	106.82	19	34.53	0.2067	10.74	0.3793	1.15	1	344.388	1.58	7.15	0.58	8	5.71	65	1.46	2.57	96.1
VL12 /BR12	104.78	11.41	38.71	0.0972	23.7	1.3684	0.5	1.5	532.36	1.19	7.22	0.7	8	9.73	100	1.08	3.6	97.6
PS15K	43	12.2	146	0.14	93	2.09	7.9	4	856.3	0.42	4.9	1.8	8	17.4	1000	0.4	.	99
PS18K	33	12.9	281	0.14	154	2.54	9.8	4	1178	0.55	5.7	2.3	8	18.5	1000	0.52	.	97
GT12-8	104.78	11.41	38.71		23.7		0.5	1.5	532.36	1.19	7.22	0.7	8		100	1.08	3.6	97.6
TS10-4/8	62	2.1	70		54		3.5	2.5		0.46	5.9	0.82	4/8		300	0.38	2.689	96
TS15-4/8	40	2.1	170		92		3	3		0.4	5.5	0.91	4/8		600	0.33	3.164	97
TS18-4/8	40	2.7	251		145		8	4		0.56	5.5	1.34	4/8		800	0.46	2.689	97
TS21-4	24	2.6	566		331		13	4		0.35	3.3	1.9	4		1000	0.31	1.684	95

2008 NE Neodymium Series

Model	Power	Freq Resp	Nom Imp	Re (Ohms)	Vc (dia/In)	Le (mH)	Qms	Qes	Qts	Xmax (mm)	Eff %	Fs (Hz)	Mms (g)	Vas (L)	SPL (dB)
NE6-8	200W	90-8kHz	8	5.7	1.5	0.401	6.098	0.7566	0.6731	1	1.8398	102	7.789	13.6	94.6
NE8-8	250W	60-9kHz	8	5.9	2	1.02	3.7097	0.3763	0.3416	2	1.8307	66.2403	15.2747	24.7212	94.6
NE10-8	300W	60-6kHz	8	5.9	2.5	0.53	3.8	0.49	0.41	2.35		61.3	29	39.8	95.4
NE10-4	300W	60-6kHz	4	3.4	2.5	0.53	3.8	0.49	0.41	2.35		61.3	29	39.8	95.4

NE12-8	400W	51-3kHz	8	5.5	2.5	1.34	1.97	0.41	0.34	2		51	42.88	93.43	97
NE15-8	600W	38-3kHz	8	5.5	3	1.66	1.995	0.35	0.373	3	2.79	42	118.37	123	97
NE15-4	600W	38-3kHz	4		3					3					97
NE18-8	800W	30-2kHz	8	6.3	4	1.97	4.88	0.54	0.48	5.4	1.9	29	168.43	469.3	98
NE18-4	800W	30-2kHz	4		4					5.4					98

High Frequency Drivers

Part Number (Model)	Power Rating	Resp.(Hz)	Re (Ohms)	Lens Size	Hole Size	Depth	SPL (dB)	Type	Mag. (lbs.)	X-over (Hz)
PS500	75 Watts	2k-18k	8	15.25" x 5.25"	12.65" x 3.78"	8.5"	101	Motorola Ceramic	N/A	2.5k +
PS1080	50 Watts	2k-16k	8	4.3" dia.	3.85" dia.	4.6"	103	Compression	1.75	2.5k +
PS1100	100 Watts	2k-19k	16	16.5" x 6.25"	14.55" x 5.05"	11.6"	107	Compression	5.5	2.5k +

Horn Drivers

Part Number (Model)	Power Rating	Resp.(Hz)	Re (Ohms)	Throat Size	VC Size	SPL (dB)	Driver Type	Weight (lbs.)
HT151-16	60 Watts	2kHz-16kHz	16	1 inch	1.5 inch	107	Titanium/Ceramic	1.75
COMP-34N-8	75 Watts	2kHz-19kHz	8	1 inch	1.75 inch	107	Titanium/Neodymium	1
COMP-44N-8	100 Watts	2kHz-19kHz	8	1 inch	1.75 inch	110	Titanium/Neodymium	1
COMP-75-8	150 Watts	500kHz-20kHz	8	2 inch	3 inch	110	Titanium/Ceramic	3

Crossovers

Part Number	Ohms	Watts	X-over Freq. 1	X-over Freq. 2	Slope	Protection	Attenuation
CMP210T	4 / 8	400W	250Hz	-	12 dB/Octave 2nd Order		YES
C1802	LF 4	1600W	250Hz	-	12 dB/Octave 2nd Order		NO
C1502	LF 8 / HF 16	400W	2.5kHz	-	12 dB/Octave 2nd Order	Relay HF Protection	
C1503	LF 8, NF 8, HF 16	600W	1.25k	3kHz	12 dB/Octave 2nd Order	Relay HF Protection	NO
C1523	LF 8, NF 8, HF 8	800W	500Hz	3kHz	12 dB/Octave 2nd Order	Relay HF Protection	
C1588	4	800W	2k	5.5k	12 dB/Octave 2nd Order	Relay	NO

Connecting Carvin Crossover wires:

COLOR of crossover "jumper" wires	connects to:	for frequencies of:
BLUE	TWEETER (positive + terminal)*	- high

YELLOW	YELLOW	MIDRANGE (positive + terminal)*	- mid
RED	RED	WOOFER (positive + terminal)*	- low
WHITE	WHITE	RETURNS (negative - terminal)*	-

***special instructions for connecting Carvin Crossover wires:**

The **Red, Blue or Yellow** wires connect to the **positive (+) terminal on the speakers** (sometimes labelled in red), and the **White "return" wires connect to the negative (-) terminals** (sometimes labelled in black or white) of the respective speakers. Remember: associate "RETURN wires" with "NEGATIVE terminals".

Also, some units have two Red wires (and sometimes two Blue as well) and two White returns for those wires, usually in a "Y" configuration. If you only need one Red and/or Blue, and one White of these, just TAPE OFF or CUT & TAPE OFF the extra one, with electrical tape.

last updated June 2013