

Version 5.0 by Jeff Bagby

[illegible]

Active Circuit Response Designer

Circuit / Amp Name: **Dayton SP4A50** Parametric EQ: **Off**

Five Band Parametric Bass Equalizer

Band	1	2	3	4	5
Fc	21 Hz	33 Hz	42 Hz	52 Hz	60 Hz
Gain (dB)	0	0	0	0	0
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☐ Selectable Textbook High Pass Filter ☐ Load High Pass
 Fc: Selected Textbook Response High Pass Filter: **ON**
 30 Hz Second Order Butterworth

Optional Second Order Adjustable High Pass Filter - Stage One

Stage One:	Fc	Q	Gain (dB)
<input type="checkbox"/>	30 Hz	2	5.0 dB

Optional Second Order Adjustable High Pass Filter - Stage Two

Stage Two:	Fc	Q	Gain (dB)
<input type="checkbox"/>	15 Hz	0.7	-3.1 dB

Selectable Textbook Low Pass Filter

Fc	1	Textbook Response	Load Low Pass
80 Hz	<input type="checkbox"/>	Fourth Order Butterworth-Riley	<input type="checkbox"/> Low Pass Filter: <input type="text"/> Off

Linkwitz Transform - Bi-quad Phase Shifter

F0	G0	Fp	Gp	Gain (dB)
100 Hz	-66	46	0.7	17.4 dB
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Linkwitz: **Off**

Derived Driver, Box and System Data		Calculated Alignment Data	
Calculated Driver Parameters			
SPL 1 W / Meter (dB)	96.50	Alignment Value	3.88
SPL 2.83V / Meter (dB)	97.46	IEBP (Fs/Qes)	87.50
System DCR (Ohms)	6.40	Imp (Vs/Vin)	1.76
Applied Voltage (V)	25.30	alpha (Fz/Fs)	0.83
Efficiency No (%)	2.6751	Part Min Dia (in)	5.30
S2s (with series R)		Max Output W/ Filter	116.40
Cms (mm/in)	0.245	Relative -3 dB Point	51.69 Hz
Mms (kg)	0.0894	Relative -6 dB Point	39.55 Hz
Rms (kg/s)	2.179	Relative -10 dB Point	31.7 Hz
BL (kg/m/sq)	17.216		
Max Output (dB)	116.50		

Frequency Range Utility			
Minimum	10 Hz	Maximum	1,000 Hz
Graphics Save Utility			
Graph Width Multiplier	1.33	Height Multiplier	1

