

All tests were performed with a $R_L = 4\Omega$ non-inductive load. Only one channel was tested. Measurements were made using a PC-based audio interface and a 2-channel 3rd order passive lo-pass class D measurement filter. The Crown D-45 was included in testing as a reference to help quantify the noise and distortion measurement limits of the test setup.

Test	Crown D-45 class AB (reference)	Sure 2 x 300W AA-AB32192 TAS5630	YJ 2 X 100W TDA8920	YJ Mono 200W IRS2092	YJ 2 X 50W TPA3116	XH-M542 Mono 10W TPA3116	Units
Gain	25.7	30.2	28.5	30.3	25.4	35.1	dB
Frequency Response 20-20k	flat	-2 dB @ 20 Hz (see graph)	flat	flat	flat	< -5 dB @ 20kHz (see graph)	dB re: 1k
Rise Time 1 kHz Square Wave @ 2V	2.8	7.7	9.0	9.7	5.3	34.0	μ s
Noise Floor A-weighted input shorted	60	280	130	450	220	220	μ V A-wtd
Max Watts @ 1.0% THD	59	98 ¹	57	109 ¹	42	40	W
Power Supply Used for Testing	(Mains)	+ 32 VDC	\pm 27 VDC (after rectifier)	\pm 32 VDC	+ 21 VDC	+ 21 VDC	V
THD @ 1kHz							
120mV (0.0036W)	0.014	0.490	0.300	0.240	0.100	0.260	%
1.2V (0.36W)	0.004	0.096	0.020	0.050	0.030	0.060	%
12V (36 W)	0.007	0.070	0.110	0.090	0.180	0.550	%
THD+N							
120mV 20 Hz	0.460	1.280	1.800	2.800	1.180	1.700	%
120mV 160 Hz	0.240	0.590	0.520	0.720	0.310	0.580	%
120mV 1000 Hz	0.230	0.590	0.470	0.600	0.280	0.510	%
120mV 6300 Hz	0.210	0.700	0.450	0.550	0.260	0.520	%
1.2V 20 Hz	0.065	0.450	0.190	0.300	0.130	0.240	%
1.2V 160 Hz	0.023	0.096	0.050	0.090	0.034	0.062	%
1.2V 1000 Hz	0.023	0.100	0.055	0.080	0.042	0.070	%
1.2V 6300 Hz	0.024	0.038	0.093	0.060	0.230	0.160	%
12V 20 Hz	0.053	0.270	0.092	0.180	0.160	0.082	%
12V 160 Hz	0.019	0.070	0.052	0.084	0.130	0.120	%
12V 1000 Hz	0.013	0.068	0.110	0.100	0.180	0.580	%
12V 6300 Hz	0.025	0.090	0.470	0.046	0.760	0.780	%
IMD (DIN) 250/8000 Hz 4:1							
120mV	0.040	1.100	0.560	0.100	0.050	0.080	%
1.2V	0.016	0.054	0.100	0.090	0.180	0.210	%
12V	0.080	0.210	0.560	0.400	1.000	4.000	%
IMD (Custom) 700/900 Hz 4:1							
120mV	0.040	0.670	0.550	0.140	0.050	0.120	%
1.2V	0.004	0.033	0.020	0.080	0.040	0.080	%
12V	0.080	0.140	0.220	0.250	0.260	1.000	%

¹ Power supply voltage was significantly below maximum
All AC voltages are RMS

