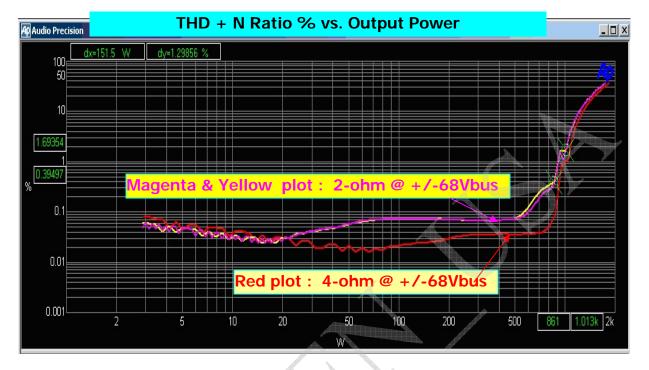
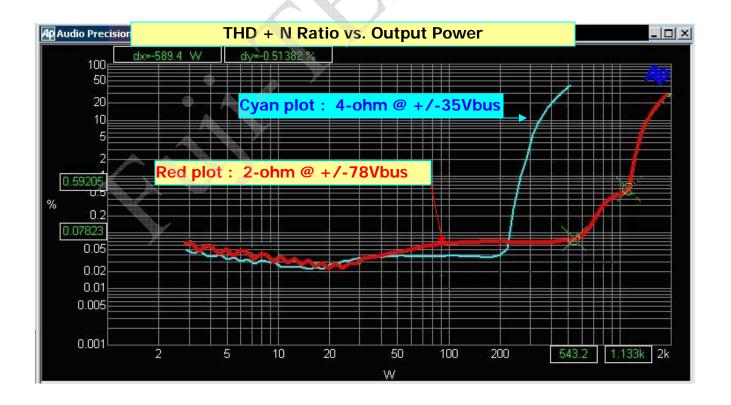
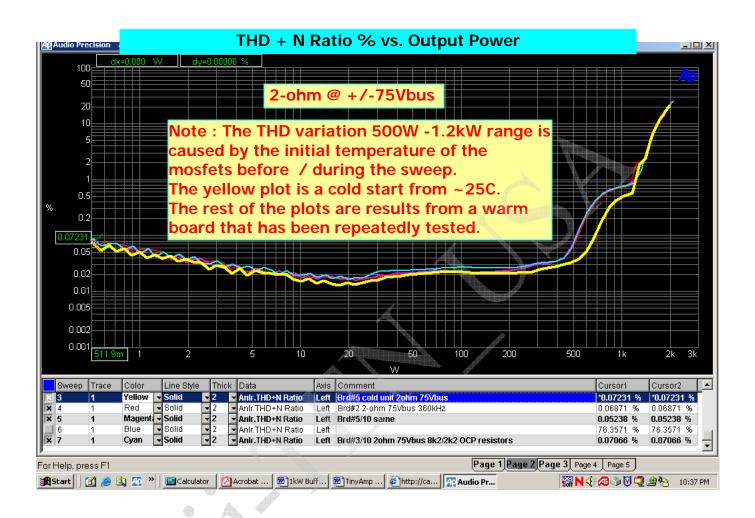


#### **THD Performance Test**







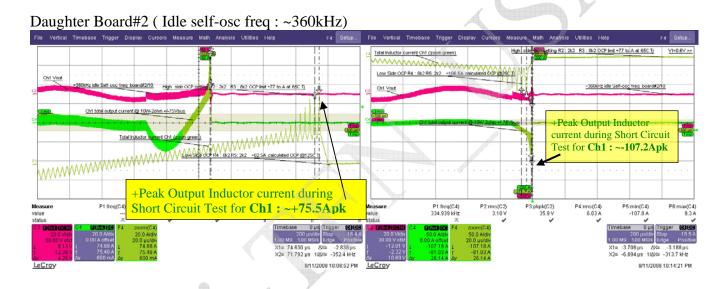




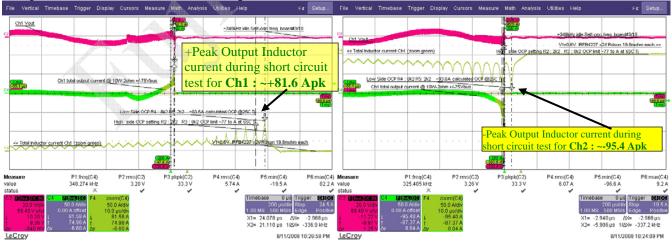
# Low side R4 / R5 : 8k2 / 2k2 High side R3 / R2 : 8k2 / 2k2

The peak of the short circuit current is highly dependent on the interrelationship of the Rdson vs. junction temperature of the mosfets. The variation of the OCP current is deemed to be reasonable considering duration the daughter board is already running which warms up the board under test. The instantaneous OCP trip level is decided by the Ids and Rdson as a function of Tj.

The ckt. designators R2/R3 and R4/R6 are referring to the OCP test portion of IRS20955 datasheet / appnote AN1138 for IRS2092.

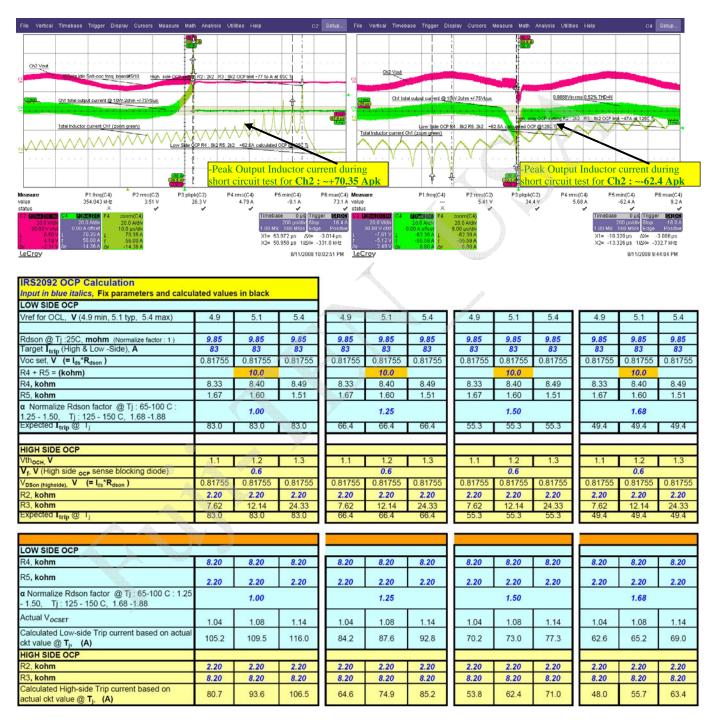


#### Daughter Board#3 (Idle self-osc freq : ~349kHz)

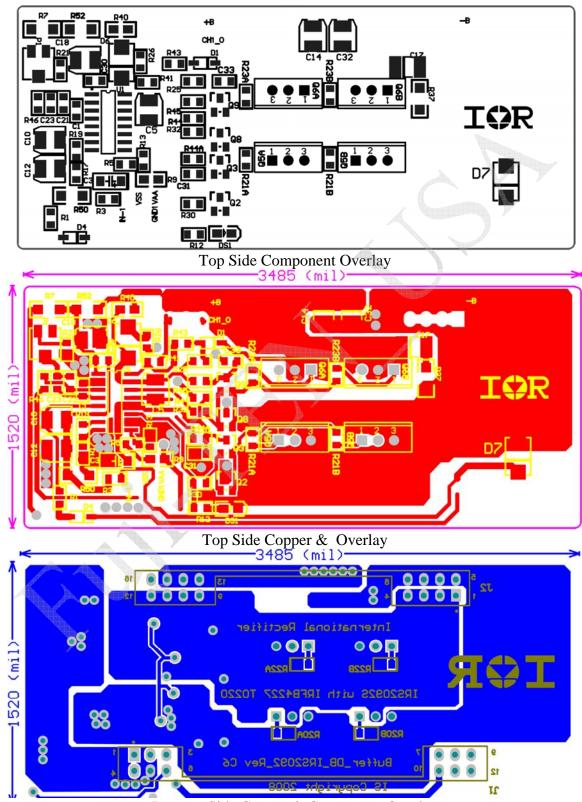




#### Daughter Board#5 (Idle self-osc freq : ~357kHz)







Bottom Side Copper & Component Overlay





Front View



Top Side (back view)



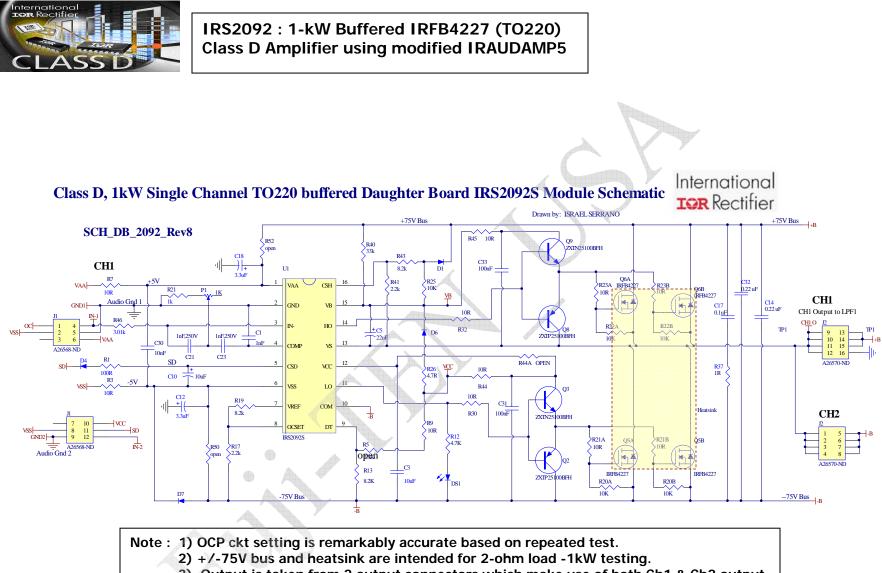
Bottom side



Bill of Materials					
CLASS D STEREO AMP REFERENCE DESIGN IRS2092 Daughter Board					
Source Data From: Project:		1kW TO220 Buffred IRS2092 DB revC6c.PrjPcb 1kW TO220 Buffred IRS2092 DB revC6c.PrjPcb			
			- ( - )		
Designator	LibRef Footprint	PartType	Quantity	Part No.	Vendor
21	C-805	1nF,250V,COG	1	445-2325-1-ND	DIGI KEY
3	C-1206	10uF, 16V, Tan	1	495-2236-1-ND	DIGI KEY
5	Tan-B	10uF	1	399-3780-1-ND	DIGI KEY
210	Tan-B	10uF, 16V/399-1593-1-ND/	1	399-3706-1-ND	DIGI KEY
C12, C18	Tan-B	3.3uF	2	445-1432-1-ND	DIGI KEY
C14, C32	1812	0.22 uF	2	478-3986-1-ND	DIGI KEY
217	1812	0.1uF	1	478-3988-1-ND	DIGI KEY
21, C23 30	C-805 C-805	1nF,250V 100nF	2	445-2325-1-ND	DIGI KEY
				399-3486-1-ND	DIGI KEY
31, C33	C-805	100nF	2	399-3486-1-ND	DIGI KEY
1	SOD-123	BAV19WS-7-F	1	BAV19WS-FDICT-ND	DIGI KEY
14	SOD-123	1N4148WS-7-F	1	1N4148WS-FDICT-ND	DIGI KEY
96 17	SMB	MURA120T3G	1	MURA120T3GOSCT-NE	
)/ )S1	SMB LED	ES1D LED-805	1	ES1DFSCT-ND	DIGI KEY
1	CON EISA-31	A26568-ND	1	160-1645-1-ND	DIGI KEY
2	CON_POWER	A26570-ND	1	A26568-ND	DIGI KEY
2	POT4MM-2	1K	1	A26568-ND	DIGI KEY
)2, Q8	SOT23-BCE	ZXTP25100BFH	2	ST32ETB102TR-ND	DIGI KEY
12, Q8	SOT23-BCE	ZXTN25100BFH	2	ZXTN25100BFHCT-ND	DIGI KEY
05A, Q5B, Q6A, Q6B	TO-220AB	IRFB4227	4	ZXTN25100BFHCT-ND	
1	R-805	100R	1		IR
3, R21A, R21B, R23A, R23B, R30, R32, R44, R45	R-805	100K	9	P100ACT-ND	DIGI KEY
5	R-805	open	1	P10ACT-ND	DIGI KEY
7	1206	10R	1	P3.3KACT-ND	DIGI KEY
29	0805	10R	1	P10ECT-ND	DIGI KEY
	R-805	4.7K	1	P10ACT-ND	DIGI KEY
113, R19	R-805	8.2K	2	P4.7KACT-ND	DIGI KEY
17,R41,	R-805	2.2k	1	P8.2KACT-ND	DIGI KEY
20A, R20B, R22A, R22B, R25	R-805	10K	5	RHM1.2KARCT-ND	DIGI KEY
21	R-805	1k	1	P10KACT-ND	DIGI KEY
226	R-805	4.7R	1	P1.0KACT-ND P4.7ACT-ND	DIGI KEY
37	1206	1R	1	P4.7ACT-ND P1.0ACT-ND	DIGI KEY
240	0805	33k	1	RHM33KARCT-ND	DIGI KEY DIGI KEY
R44A	R-805	open	2	P10KACT-ND	DIGI KEY
243	R-805	8.2k	1	RHM0.0ARCT-ND	DIGI KEY
846	R-805	3.01k	1	RHM3.01KCCT-ND	DIGI KEY
850, R52	1206	open	2	open	DIGI KEY
J1	SO-G16	IRS2092S	1		IR
ITSNK assy 1		To220 Heatsink 15W	1	7-342-2PP-BA	DIGI KEY
ock Washer			4		
ilpad insulator pad			4	K10-43	BERGQUIST
plastic TO220-bushing			4		

mounting screws / bolts

4 sets 76



- 3) Output is taken from 2 output connectors which make use of both Ch1 & Ch2 output filters of a modified IRAUDAMP5 board.
- 4) All test results in this report are subject to change / confirmation test.