

Exhibit 4: Schematics

External Radio Frequency Power Amplifier ACOM 1011

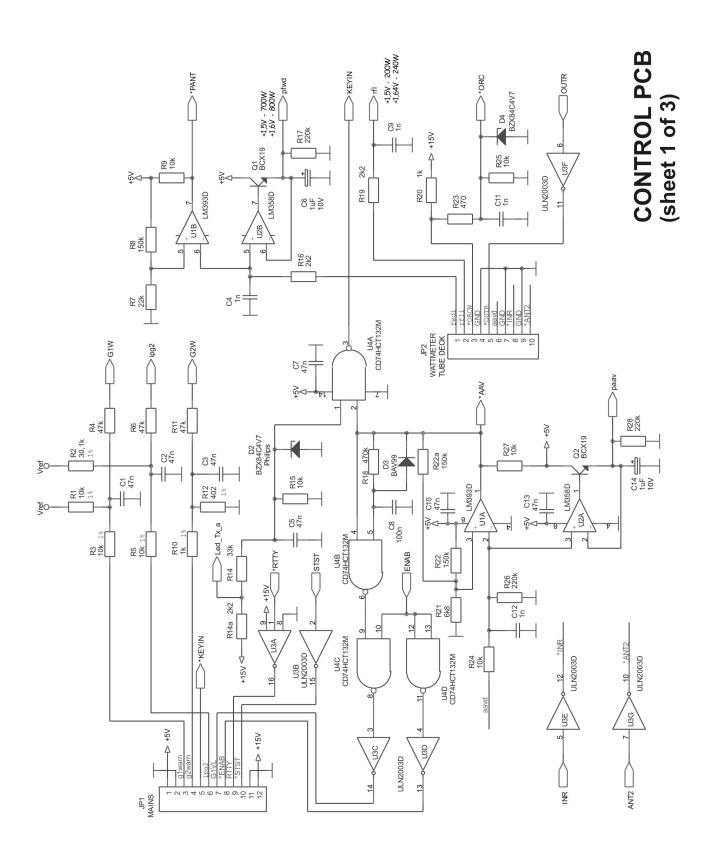
Model 1011

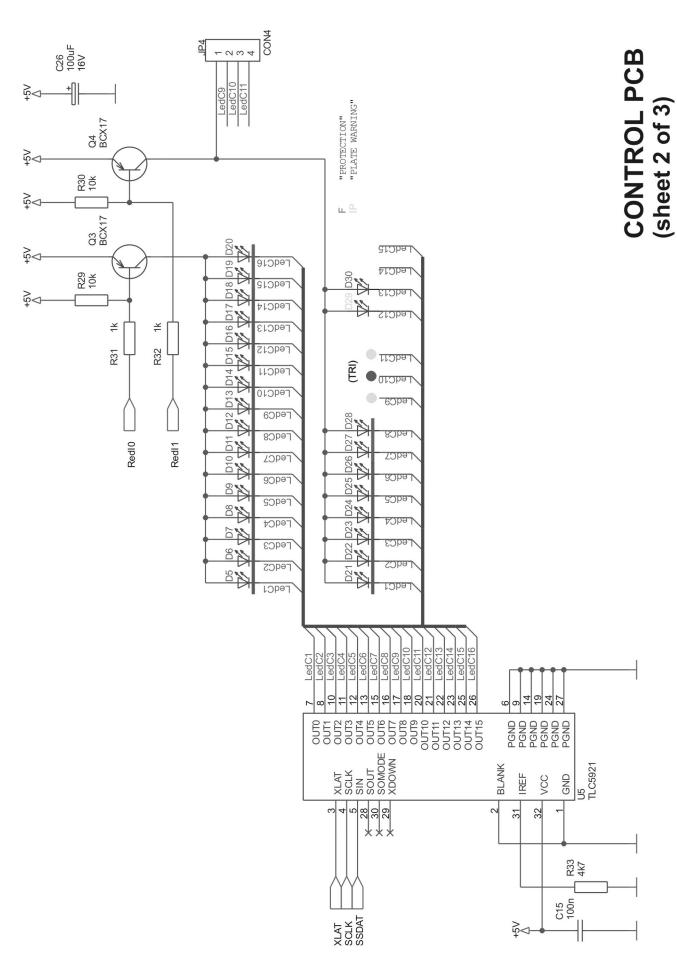
Array Solutions

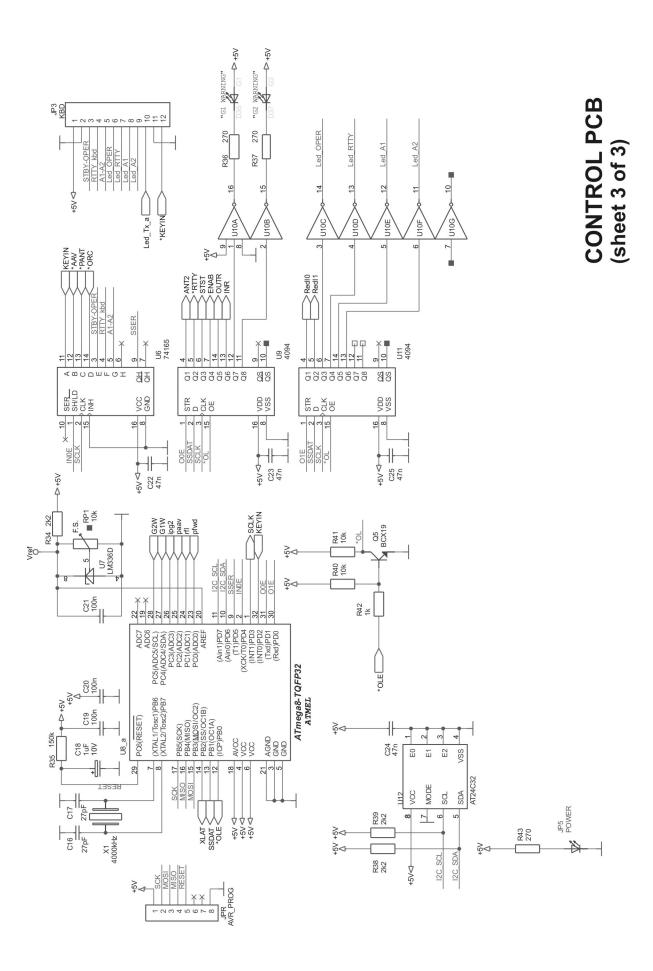
2611 North Beltline Rd Suite 109 Sunnyvale, Texas 75182 USA

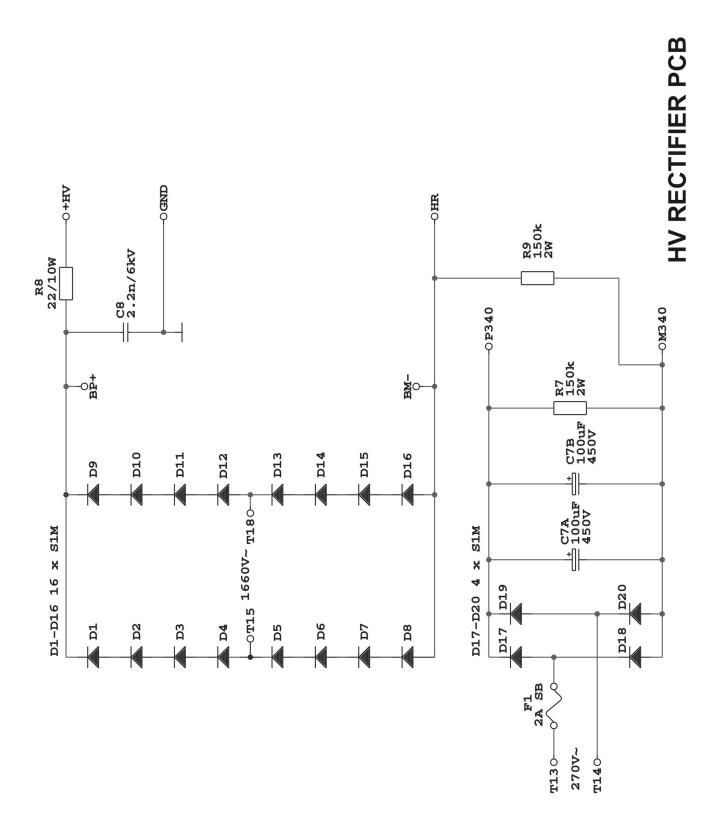
Tel: 214 954 7140 fax: 214 954 7142

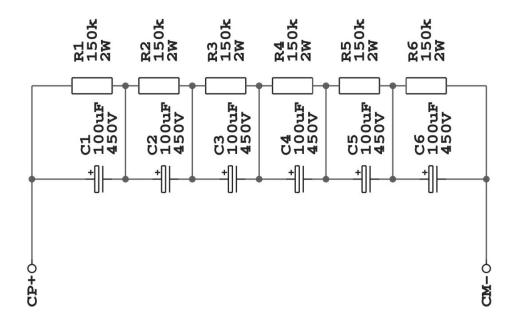
E-mail: info@arraysolutions.com

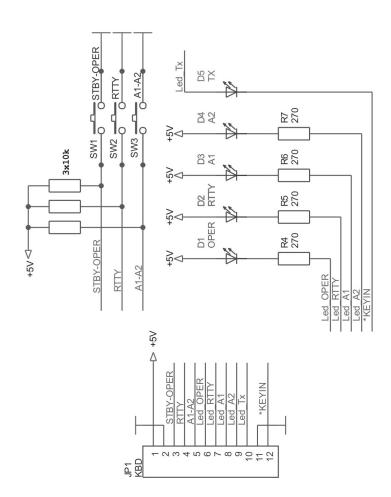


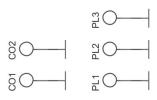


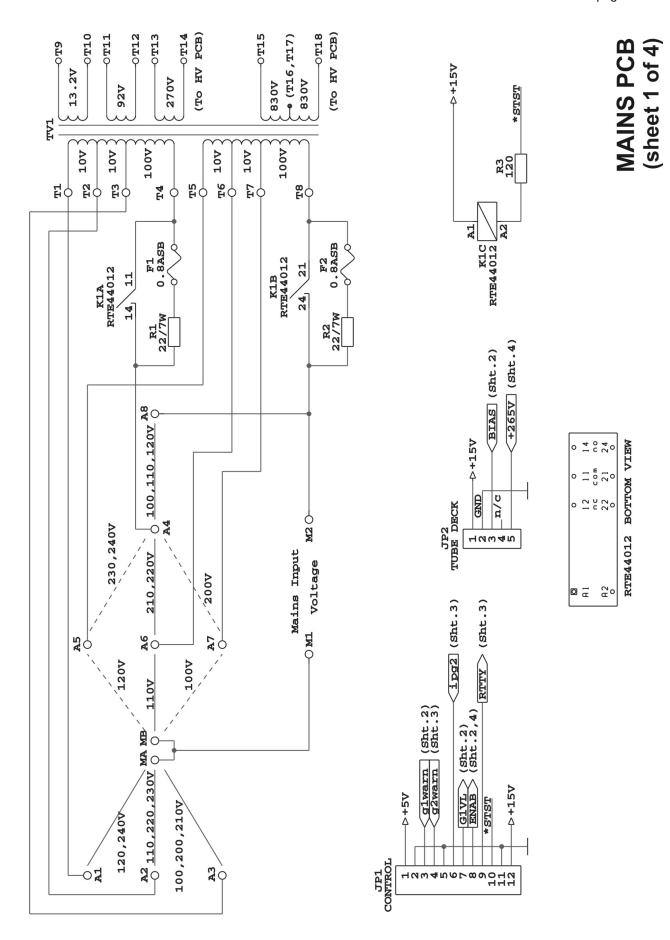


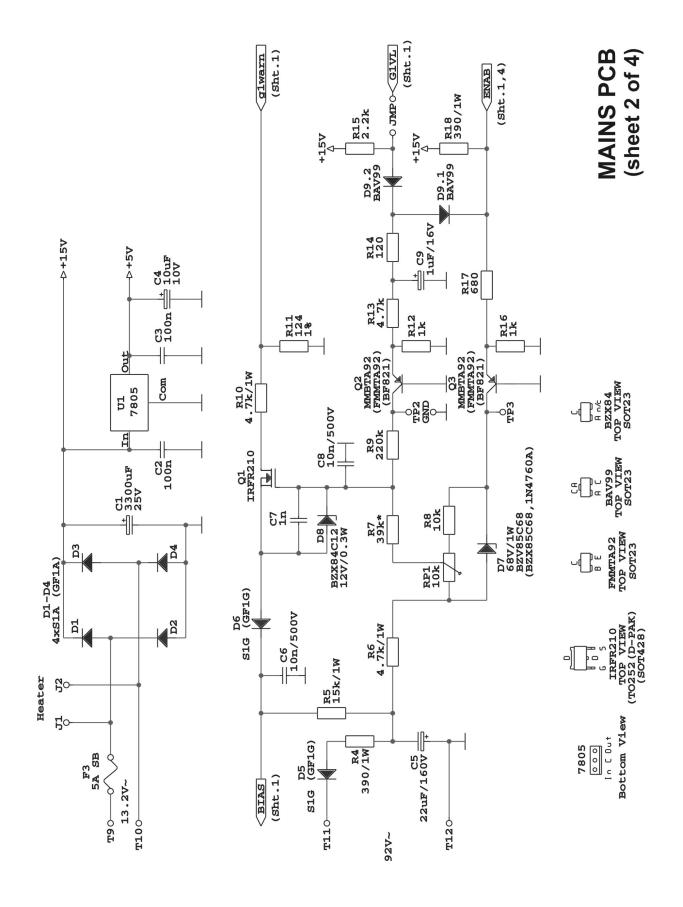


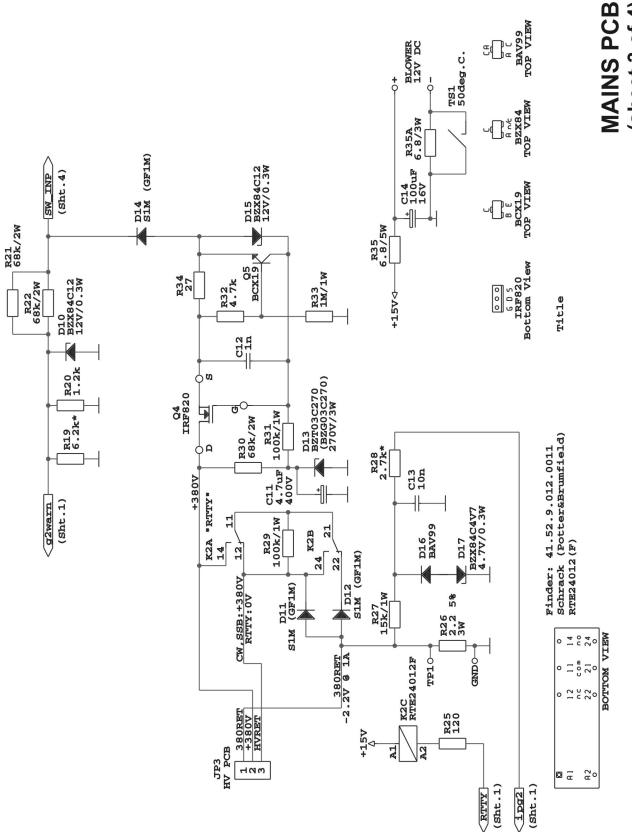






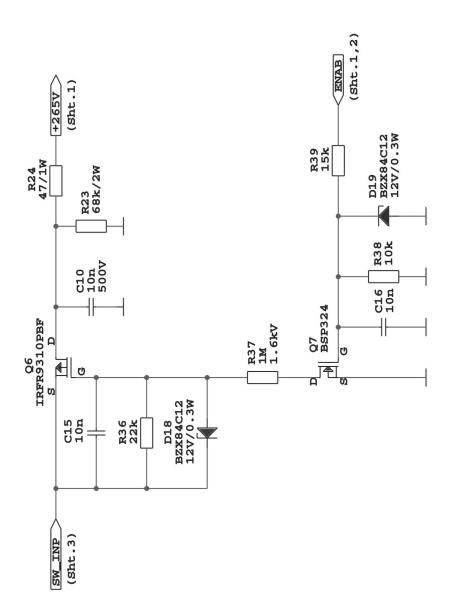




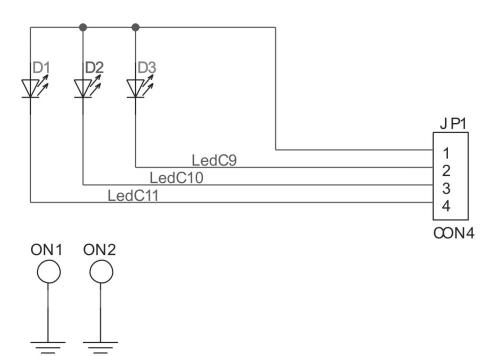


(sheet 3 of 4)

MAINS PCB (sheet 4 of 4)



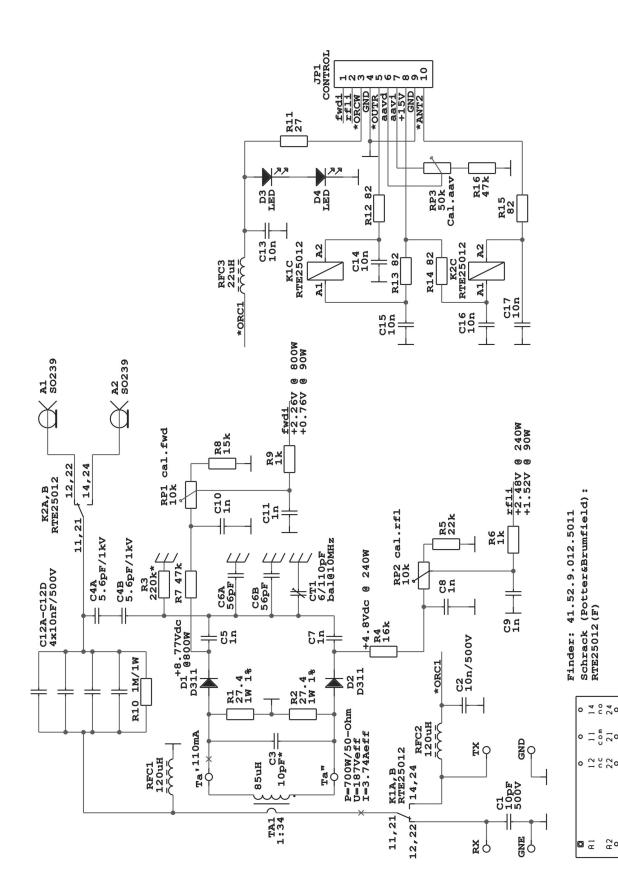




BOTTOM VIEW

RTE25012

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Cable Harness Connections:

CONTROL JP1	Signal name	To:
1	+5V	MAINS JP1:1
2	GND	MAINS JP1:2
3	g1warn	MAINS JP1:3
4	g2warn	MAINS JP1:4
5	*KEYIN	Rear panel - KEYIN
6	ipg2	MAINS JP1:6
7	G1VL	MAINS JP1:7
8	ENAB	MAINS JP1:8
9	RTTY	MAINS JP1:9
10	*STST	MAINS JP1:10
11	GND	Rear panel - KEYIN
12	+15V	MAINS JP1:12
CONTROL JP2	Signal name	To:
1	fwdi	WATTMETER JP1:1
2	rfli	WATTMETER JP1:2
3	*ORCW	WATTMETER JP1:3
4	GND	WATTMETER JP1:4
5	*OUTR	WATTMETER JP1:5
6	aavd	WATTMETER JP1:6
7	GND	INPUT JP1:6
8	*INR	INPUT JP1:2
9	GND	-
10	*ANT2	WATTMETER JP1:10
MAINS JP1	Signal name	To:
1	+5V	CONTROL JP1:1
2	GND	CONTROL JP1:2
3	g1warn	CONTROL JP1:3
4	g2warn	CONTROL JP1:4
5	GND	-
6	ipg2	CONTROL JP1:6
7	G1VL	CONTROL JP1:7
8	ENAB	CONTROL JP1:8
9	RTTY	CONTROL JP1:9
10	*STST	CONTROL JP1:10
11	GND	-
12	+15V	CONTROL JP1:12
MAINS JP2	Signal name	То:
1	+15V	INPUT JP1:5
2	GND	INPUT JP1:3
3	BIAS	INPUT JP1:8
4	n/c	-
5	+265V	INPUT JP1:10
INPUT JP1	Signal name	То:
1	aavi	WATTMETER JP1:7
2	*INR	(CONTROL JP2:8)

3	GND	(MAINS JP2:2)	
Cable Harness Connections (continued):			
4	+15V	WATTMETER JP1:8	
5	+15V	(MAINS JP2:1	
6	GND	(CONTROL JP2:7)	
7	GND	WATTMETER JP1:9	
8	BIAS	(MAINS JP2:3)	
9	n/c	-	
10	+265V	(MAINS JP2:5)	
WATTM. JP1	Signal name	To:	
1	fwdi	(CONTROL JP2:1)	
2	rfli	(CONTROL JP2:2)	
3	*ORCW	(CONTROL JP2:3)	
4	GND	(CONTROL JP2:4)	
5	*OUTR	(CONTROL JP2:5)	
6	aavd	(CONTROL JP2:6)	
7	aavi	(INPUT JP1:1)	
8	+15V	(INPUT JP1:4)	
9	GND	(INPUT JP1:7)	
10	*ANT2	(CONTROL JP2:10)	

End