

Title		EXTRA-2 PREAMPLIFIER	
Size	Number	Rev	
A3	DESIGNED BY HA8ET	6	
Date	09.07.2011	Drawn by	HA8ET
Filename	EXT_REV6	Sheet	1 of 1

HA8ET

PREAMPLIFIER
XTRA-2

EXTRA-2
HA8ET

REV-6

+12V

GAIN

OUT

+12V

+5V

K1

D3

D1

D2

TS1

P2

C12

C13

C14

C15

IN

CT

L1

L2

C10

R7

R6

D4

R8

R9

C11

D6

L3

L4

P1

R1

C3

C4

R3

C6

R4

R5

C8

C9

TP2

D5

TP1

C16

C17

L5

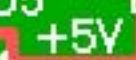
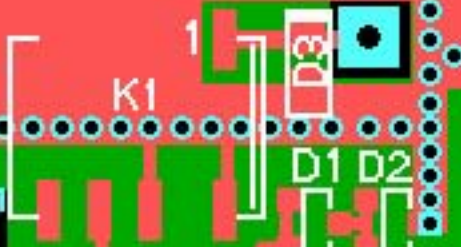
C18

C19

C20

D7

1



HA8ET

+12V

PREAMPLIFIER
XTRA-2

AXICOM
IM06.50
12V DC
1032H

GAIN

EXTRA-2
HA8ET

OUT

IN

+12V

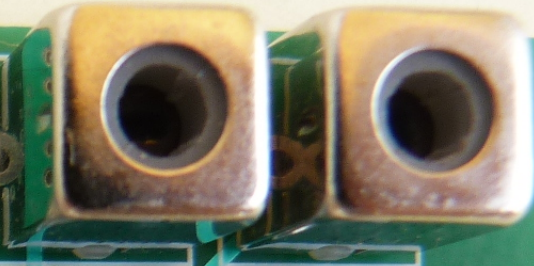
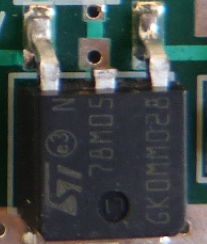
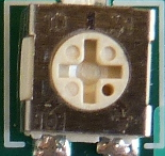
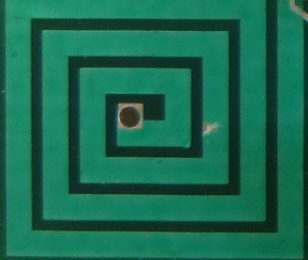
REV-6

TP2

TP1

+5V

+



3GU

1R0

0R1

3300

4R70

1000

4700

1000

10R0

10R0

10R0

10R0

1R0

475
50K
814



EXTRA-2 144 MHz Contest Preamplifier modification (REV6)
By HA8ET

Part list

Reference	Value	Package	Distributor	Type	Manuf.
CT	3-10 pF	SMD	Farnell	TZB4Z100AB10R00	Murata
C1 (Microwave!)	15 pF	0805	Farnell	08052U180GAT2A	AVX
C2 (Microwave!)	22 pF	0805	Farnell	08052U270GAT2A	AVX
C3, C6, C18	100 pF COG	0805	Farnell	C0805C101J5GAC	KEMET
C4, C7, C8, C10, C17	1nF X7R	0805	Farnell	08055C102KAT2A	AVX
C11, C15	150 pF COG	0805	Farnell	C0805C151J5GAC	KEMET
C12, C14	56 pF COG	0805	Farnell	C0805C560J5GAC	KEMET
C13	3,3 pF COG	0805	Farnell	ERB21B5C2E3R3B	Murata
C5, C9, C16, C19	100 nF X7R	0805	Farnell	08055C104JAT2A	AVX
C20	4,7 uF/50 V	7343	Farnell	T495X475K050AT	KEMET
C21 (Feed-through)	1 nF	-	Gigatechnik	BUBQ5-00	STELCO
L1, L2, L5	1000 nH	1008	TME	CW1008-1000	Ferrocore
L3, L4	24 nH	-	BEC	100072	TOKO
R1,	22	0805	Farnell		
R2	47	0805	Farnell		
R3	330	0805	Farnell		
R4	4,7	0805	Farnell		
R5	1	0805	Farnell		
R6, R8	10	0805	Farnell		
R7, R9	100		Farnell		
D1, D2, D3, D4, D5	-	SOT-23	Farnell	BAS70-04	VISHAY
D6	-	DO214A	Farnell	FR1M	Semicon
D7	-	0805	Farnell	1N4148 SMD	
T1	-	SOT-89	Farnell	ATF-53189	Avago
IC1	-	D-PAK	Farnell	78M05CDT	STM
P1	500	SMD	Farnell	TS53YL501MR10	VISHAY
P2	100	SMD	Farnell	TS53YL101MR10	VISHAY
K1	-	SMD	Farnell	IM06GR	TYCO
Box (Drilled, labelled)	-	-	-	37 X 74 X 30 mm	HA8ET
Connectors	BNC Female*	-	Farnell	1-1337446-0	TYCO
PCB	-	-	HA8ET	71,5 X 34,5 mm	HA8ET

*Also available with N-female / N-female, or N-male/N-female