



RF1

ANT
J4

+14V
SENSE+
SENSE-
R39 1k
R40 1k
R41 1k
R010

CURRENT SENSE

SWR BRIDGE

LOW-PASS FILTER

ANT RELAY

KEYING

POWER AMPLIFIER

DRIVER

RELAY/KEYING CONTROL

POWER SUPPLY

+14V
R34 10k
Q5 IRLML5203
C46 100n

+14V
R36 1k
R37 680R
Q8 FQB27P06T
C47 100n

+14V
R32 1k
R33 1k
C51 100n
D3 1/2 BAT54S

+14V
R30 1k
Q3 2N7002
R31 1k
Q4 2N7002

+14V
R42 51R
RL1-B
RL1-A

+14V
R43 51R
R44 51R
R45 470k
R46 470k
R47 1k
R48 1k
C57 1u
C58 1u
C59 100n
C60 4u7
D8 SM6T18A
F1 7.5A
J8
J9
GND
J10
J11

+14V
C48 100n
L8 15u
T4

+14V
C49 4u7

+14V
C52 100n
D4 1/2 BAT54S

+14V
C50 100n
IC9 MIC4423YM

+14V
C53 6n8
C54 6n8
C55 6n8
C56 6n8
L9 15u
L10 15u
T5

+14V
IC10 ULN2003

+14V
J3
C59 100n

RL3-B
RL3-A

RL4-A

RL4-C
RL3-C
RL2-C
RL1-C

PWR-1
PWR-0
PRE-AMP
ANT RELAY

MIXER
PRE-AMP
REV
CW

FWD
PWR-1
PWR-0
SPARE
TX

DASH
BUFFER
DOT

RL4 RL3 PWR

1 1 MAX

1 0 HI

0 1 LOW

0 0 MIN

+14V
J12-1
J12-2
J12-3
SPARE
GND

1.58VDC@50W

Drawn 2009-09-23
Design OH7SV
Sheet 2/2

JUMA CMCD TRANSMITTER
JUMA TX500 MAIN BOARD
AMPLIFIER, SWR and RELAY SECTION

OH7SV
Rev C

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