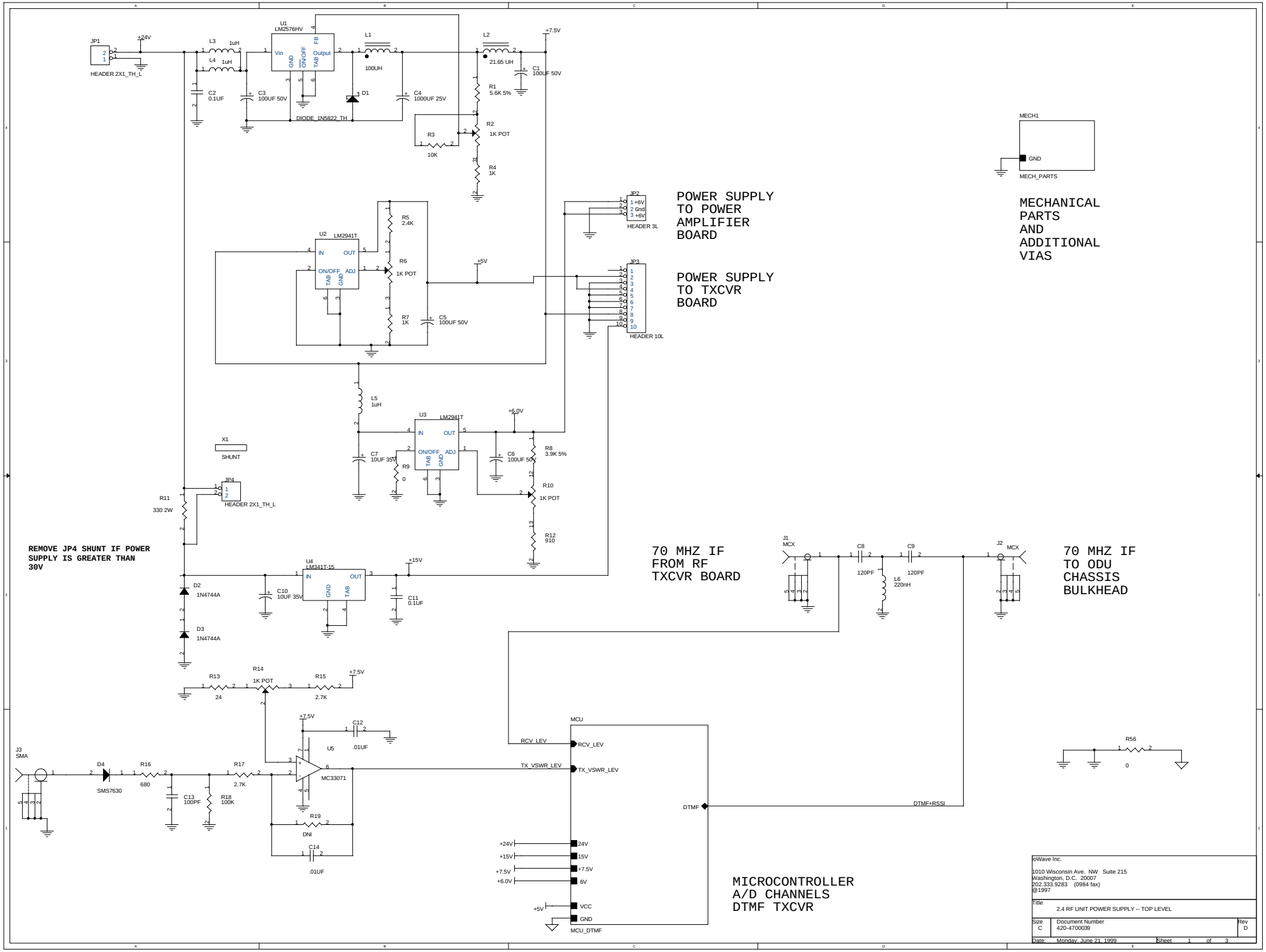
JP1
HEADER 2X1_TH_L
+24V
L3 1uH
L4 1uH
U1 LM2576HV
Vin
GND
ON/OFF
TAB
Output
FB
L1 100UH
L2 21.65 UH
+7.5V
C1 100UF 50V
C2 0.1UF
C3 100UF 50V
D1
DIODE_1N5822_TH
C4 1000UF 25V
R1 5.6K 5%
R2 1K POT
R3 10K
R4 1K
MECH1
GND
MECH_PARTS
MECHANICAL PARTS AND ADDITIONAL VIAS
JP2
1 +6V
2 Gnd
3 +6V
HEADER 3L
POWER SUPPLY TO POWER AMPLIFIER BOARD
U2 LM2941T
IN
OUT
ON/OFF
ADJ
R5 2.4K
R6 1K POT
R7 1K
+5V
C5 100UF 50V
JP3
HEADER 10L
POWER SUPPLY TO TXCVR BOARD
L5 1uH
U3 LM2941T
+6.0V
C7 10UF 35V
R9 0
C6 100UF 50V
R8 3.9K 5%
R10 1K POT
R12 910
X1
SHUNT
JP4
HEADER 2X1_TH_L
R11 330 2W
REMOVE JP4 SHUNT IF POWER SUPPLY IS GREATER THAN 30V
U4 LM341T-15
+15V
C10 10UF 35V
C11 0.1UF
D2 1N4744A
D3 1N4744A
70 MHZ IF FROM RF TXCVR BOARD
J1 MCX
C8 120PF
C9 120PF
L6 220nH
J2 MCX
70 MHZ IF TO ODU CHASSIS BULKHEAD
R13 24
R14 1K POT
R15 2.7K
+7.5V
C12 .01UF
U5 MC33071
J3 SMA
D4 SMS7630
R16 680
R17 2.7K
C13 100PF
R18 100K
R19 DNI
C14 .01UF
MCU
RCV_LEV
TX_VSWR_LEV
DTMF
DTMF+RSSI
24V
15V
+7.5V
6V
VCC
GND
MCU_DTMF
+24V
+15V
+7.5V
+6.0V
+5V
MICROCONTROLLER A/D CHANNELS DTMF TXCVR
R56 0
IoWave Inc.
1010 Wisconsin Ave. NW Suite 215
Washington, D.C. 20007
202.333.9283 (0984 fax)
@1997
Title
2.4 RF UNIT POWER SUPPLY -- TOP LEVEL
Size C
Document Number 420-4700039
Rev D
Date: Monday, June 21, 1999
Sheet 1 of 3