** PROPRIETARY DATA **
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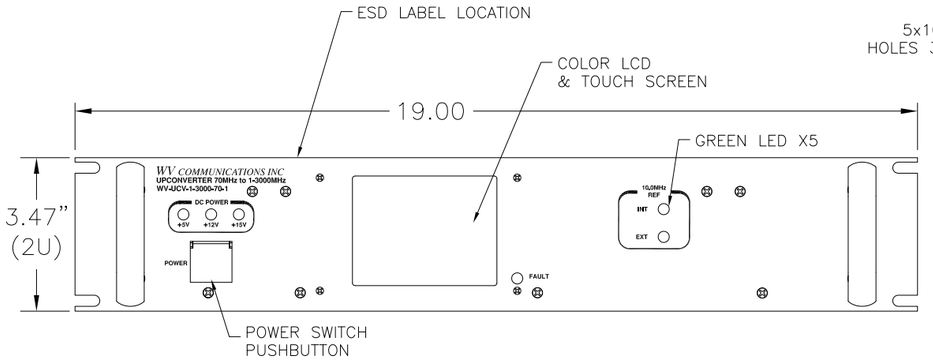
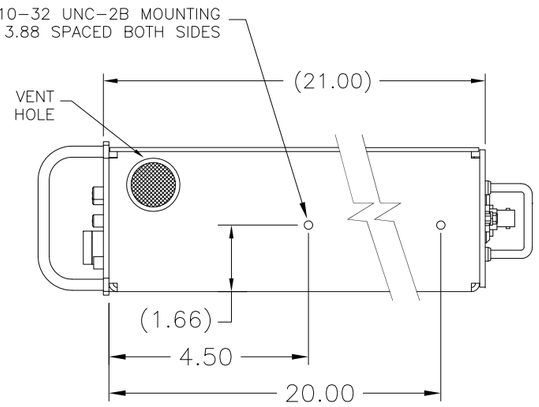
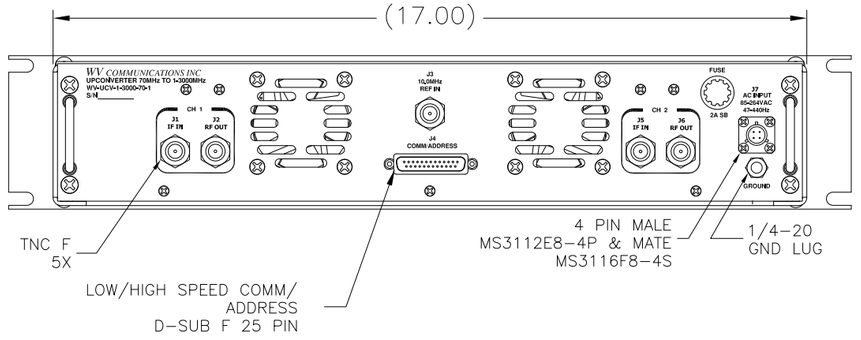
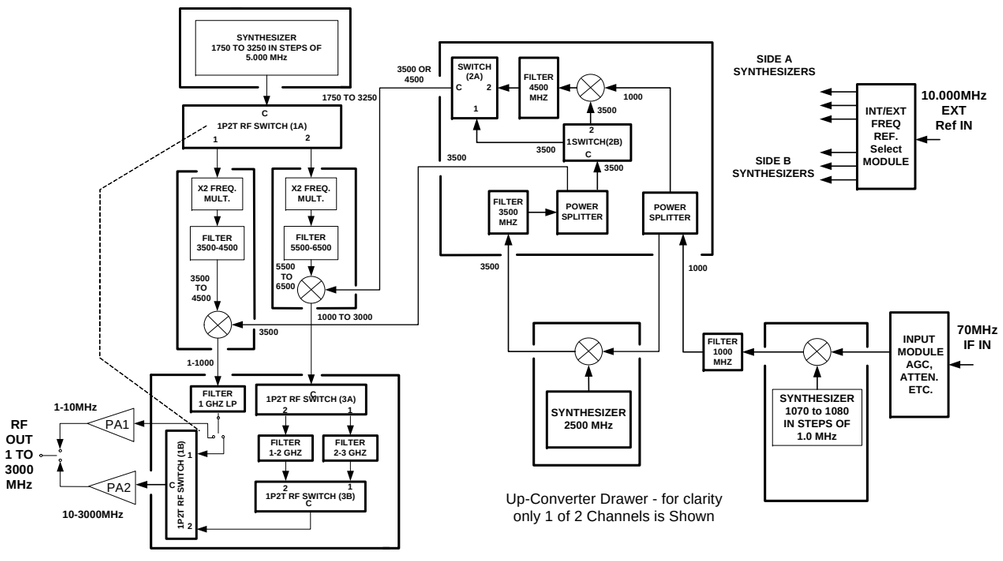
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	3/5/03	TT
	B	Added LCD Display	01-21-04	J.M.
	C	ADDED J7 TABLE	01-21-04	J.M.
	D	ADDED FAULT LED	5-10-05	J.M.
	E	Conversion Gain was 40 is 30	03-21-05	J.M.
	F	CHANGED POWER SWITCH	18MAR09	GG
	G	CHANGED POWER SWITCH PER ECO 10-0013	24MAR10	GG
	H	ADDED ESD LABEL CALL OUT	04/28/11	TT
	J	3.47 WAS 3.5 -CHG PER CWO-0197-012612	01/26/12	TT









Up-Converter Drawer - for clarity only 1 of 2 Channels is Shown

J5 COMMAND/ADDRESS	
Pin #	Designation
1	GND
2	RS422-Rx-
3	RS422-Tx-
4	HS Start-
5	HS Data-
6	HS Clk -
7	GND
8	Spare
9	Spare
10	Spare
11	Addr1
12	Addr2
13	Addr3
14	422Rx +
15	Spare
16	422Tx +
17	HS Start +
18	HS Data +
19	HS Clk +
20	Spare
21	GND
22	GND
23	GND
24	GND
25	GND

J7 AC INPUT	
PIN	DESIGNATION
A	LIVE
B	NEUTRAL
C	GND, CHASSIS
D	N/C

DUAL CHANNEL CONVERTER SPECIFICATIONS:

IF INPUT FREQUENCY:	70±12.5MHz
RF OUTPUT FREQUENCY RANGE:	1-3000MHz
RF INPUT POWER:	0dBm Maximum
RF OUTPUT FLATNESS:	±0.5dB Maximum (±0.25dB Typical)
RF OUTPUT POWER:	+22dBm Minimum at 1dB Gain Compression
LO FREQUENCY STEPS:	1.00MHz Nominal
CONVERSION GAIN:	30dB Nominal (-20 in, +10dBm out typical)
GAIN ADJUSTMENT RANGE:	60dB Nominal
GAIN ADJUSTMENT STEPS:	1dB Nominal
NOISE FIGURE:	20dB Maximum
TUNING TIME:	100uSec Maximum (including Digital Command timing in High Speed Bus Communication Mode)
HARMONICS:	40dBc Minimum
NOISE FLOOR:	-70dBm Minimum
SPURIOUS OUTPUTS:	70dBc Minimum (signal related Non Harmonic)
CARRIER STABILITY:	$\pm 2X10^{-6}$ Maximum over 0-55°C
PHASE NOISE at 1.0KHz OFFSET:	-95dBc Maximum
EXTERNAL 10.0MHz REFERENCE:	Auto switch to internal 10.00MHz when the External 10.00MHz Reference is not present
EXTERNAL 10.0MHz LEVEL:	0dBm ±3dB / 50 Ohm
COMMAND / CONTROL:	Front Panel Color LCD Touchscreen; Remote RS-232C/422/485 and High Speed 10MB/Sec Proprietary Serial Bus
WEIGHT:	25 Lbs. Maximum
INPUT VOLTAGE:	85-264VAC at 2/1A. Single Phase 47-440 Hz Auto select
AC INPUT POWER:	200W Maximum
FRONT PANEL FINISH:	Black per FED-STD 595 27038

900-50134-002	
NEXT ASSEMBLY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
FRACTIONS ± 1/64 | DECIMALS .XX±.01 .XXX±.005 | ANGLES ±0°30' | HOLES .XX±.005 .XXX +.003 -.001
MACHINED FINISH: 32 RMS
REMOVE BURRS .005 MAX
MATERIAL
FINISH
DO NOT SCALE DRAWING

APPROVALS		DATE
DRAWN	G.GODDARD	3/5/03
CHECKED	J.MEDINA	01-21-04
MECH ENGR	GG	01-21-04
ELEC ENGR	JT	01-21-04
PRODUCTION	AM	01-21-04
Q.A.	UY	01-21-04

WV Communications 1176 Tourmaline Dr. Newbury Park, CA

DUAL CHANNEL CONVERTER
70.0MHz to 1-3000MHz
WV-UCV-1-3000-70-1

SIZE	CAGE CODE	DWG. NO.	REV
D	1GFQ7	050-50380	J

SCALE NONE SHEET 1 OF 1

REV J
DWG NO. 050-50380