** PROPRIETARY DATA **
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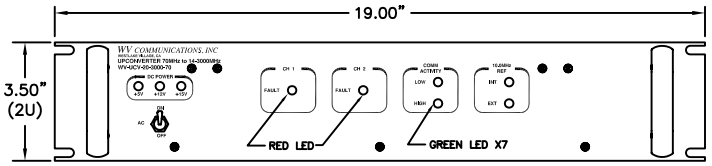
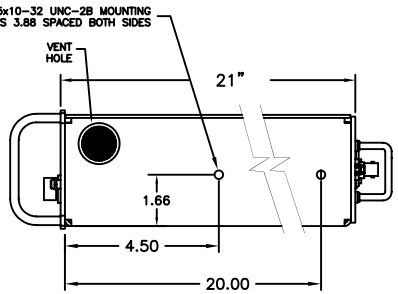
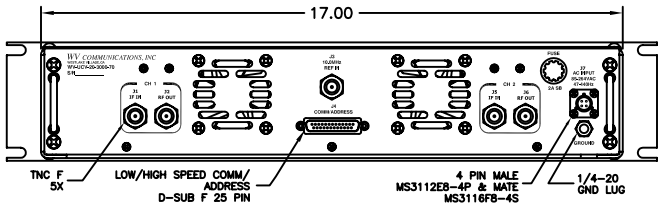
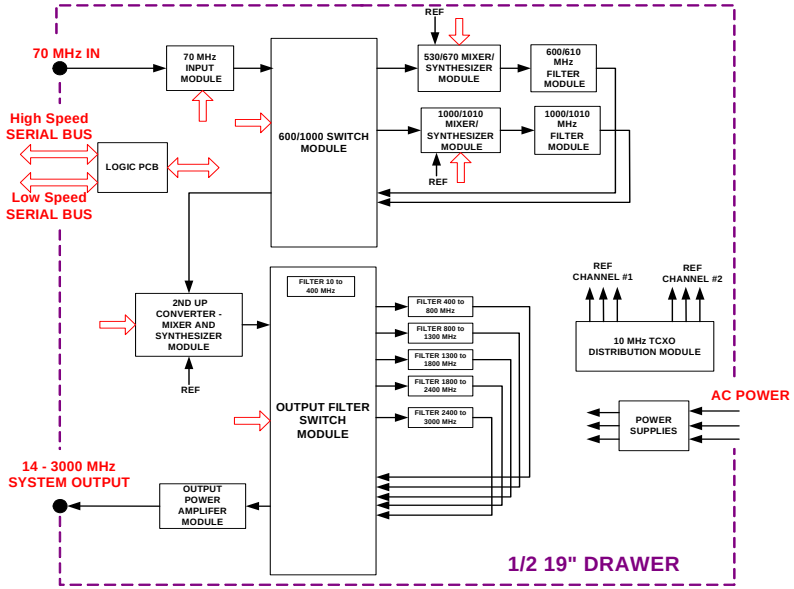
REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	PRELIMINARY RELEASE		
	B	CHANGED REAR PANEL	2APR03	
	C	UPDATED BLOCK DIAGRAM	14APR03	
	D	UPDATED P/N	07JUL03	









J5 COMMAND/ADDRESS

Pin #	Designation
1	GND
2	422Rx-
3	422Tx-
4	HS Strt –
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 Strt+
18	HS Data +
19	HS Clk +
20	(spare)
21	GND
22	GND
23	GND
24	GND
25	GND

DUAL CHANNEL CONVERTER SPECIFICATIONS:

IF INPUT FREQUENCY:	70±12.5MHz
RF OUTPUT FREQUENCY RANGE:	14-3000MHz
RF INPUT POWER:	0 dBm Maximum
RF OUTPUT POWER:	22 dB Minimum at 1dB comp
LO FREQUENCY STEPS:	1.00MHz
CONVERSION GAIN:	40dB Nominal(-20 in, +20dB out; typical)
GAIN ADJUSTMENT STEPS:	1dB Nominal
NOISE FIGURE:	20dB Maximum
TUNING TIME:	100uSec Maximum
HARMONICS:	40dBc Minimum
NOISE FLOOR:	-70dBm Minimum
SPURIOUS OUTPUTS:	-70dBc Maximum (signal related Non Harmonic)
CARRIER STABILITY:	$\pm 2X10^{-6}$ Maximum over 0-55°C
PHASE NOISE at 1KHz 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
WEIGHT:	25 Lbs. Maximum
INPUT VOLTAGE:	85-264VAC ±10%, at 2/1A. 47-440 Hz Auto select
AC INPUT POWER:	200W Maximum

NEXT ASSEMBLY	USED ON
APPLICATION	DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
FRACTIONS ± 1/64 | DECIMALS .XX±.01 .XXX±.005 | ANGLES ±0°30' | HOLES .XX±.005 .XXX +.005 -.001
MACHINED FINISH: 32 RMS
REMOVE BURRS .005 MAX

MATERIAL

FINISH

APPROVALS	DATE
DRAWN G. GODDARD	3/5/03
CHECKED	
MECH ENGR	
ELEC ENGR	
P/PA	
APPROVED	

WV Communications 756-A LAKEFIELD RD. WESTLAKE VILLAGE, CA

DUAL UPCONVERTER
70.0MHz to 20-3000MHz
WV-UCV-20-3000-70

SIZE	CAGE CODE	DWG. NO.	REV
B	1GFQ7	050-50261	D

SCALE NONE SHEET 1 OF 1

DC-FORM-00015-A REV C, 06/98