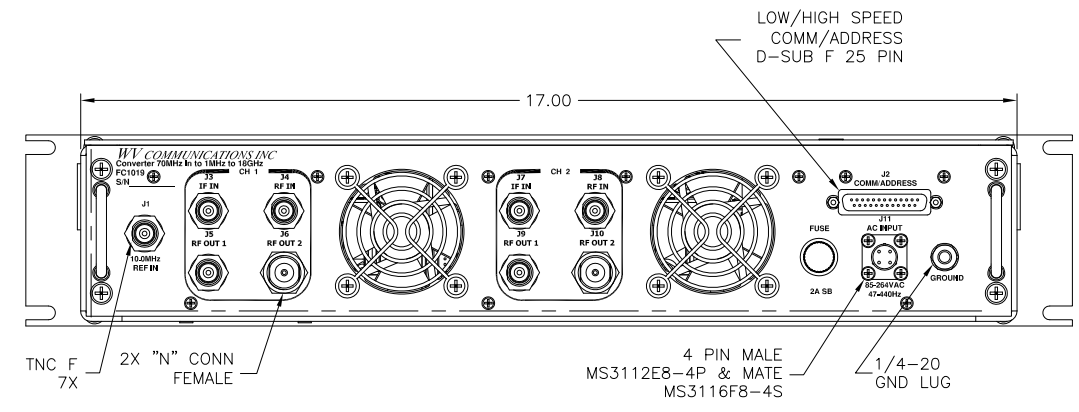
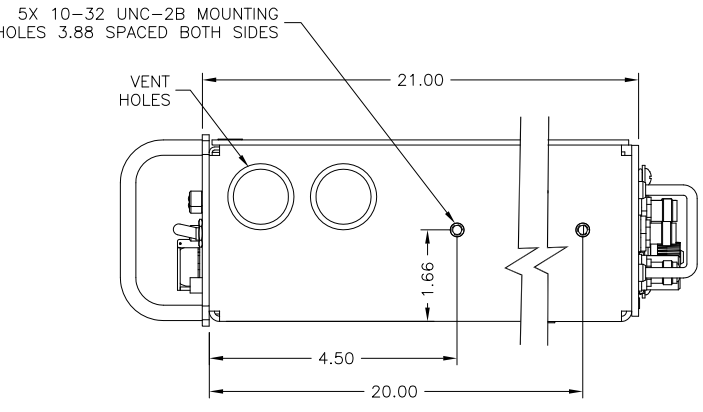
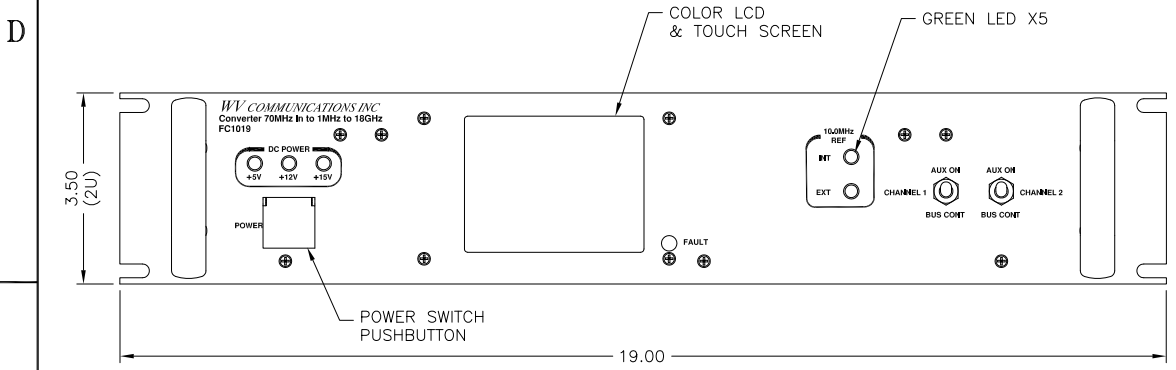
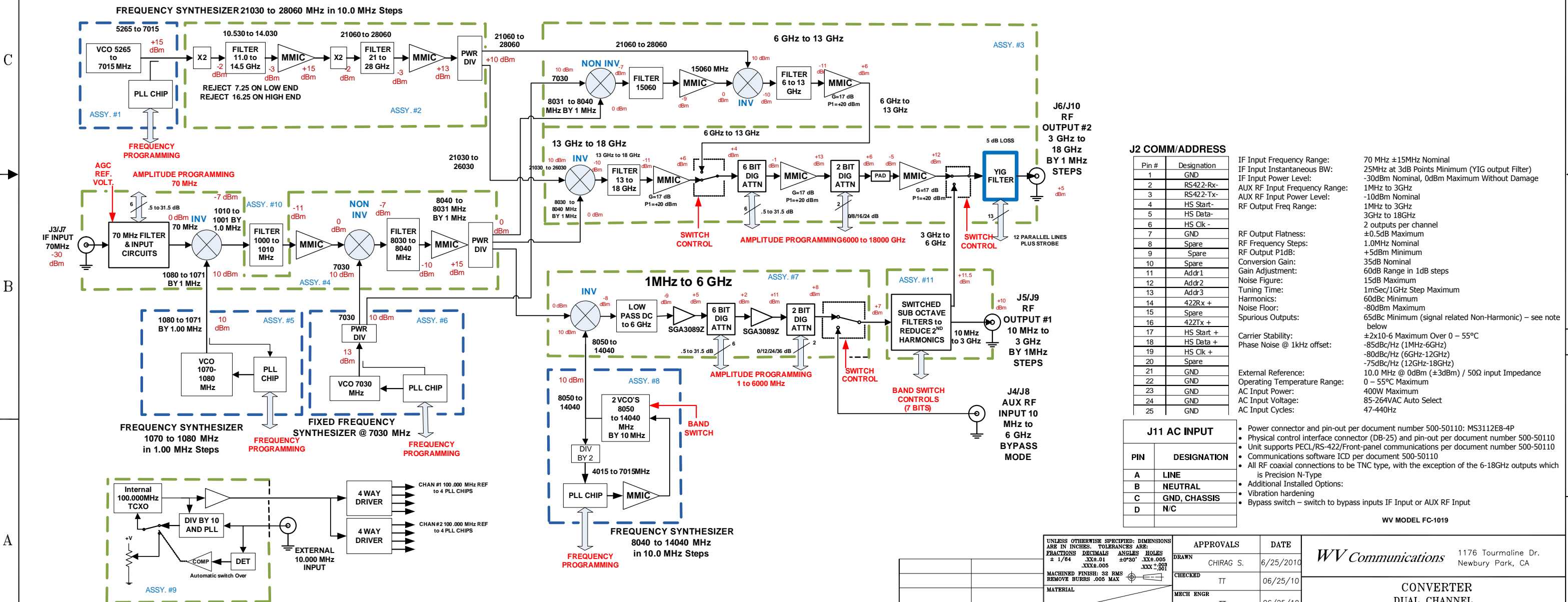


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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	3/17/2009	TT
	B	MOVED FAN AND CONNECTOR LOCATIONS	06/25/10	TT



Mar-1-2011



J2 COMM/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

IF Input Frequency Range: 70 MHz ±15MHz Nominal
 IF Input Instantaneous BW: 25MHz at 3dB Points Minimum (YIG output Filter)
 IF Input Power Level: -30dBm Nominal, 0dBm Maximum Without Damage
 AUX RF Input Frequency Range: 1MHz to 3GHz
 AUX RF Input Power Level: -10dBm Nominal
 RF Output Freq Range: 1MHz to 3GHz
 3GHz to 18GHz
 2 outputs per channel
 ±0.5dB Maximum
 RF Output Flatness: 1.0MHz Nominal
 RF Frequency Steps: +5dBm Minimum
 Conversion Gain: 35dB Nominal
 Gain Adjustment: 60dB Range in 1dB steps
 Noise Figure: 15dB Maximum
 Tuning Time: 1mSec/1GHz Step Maximum
 Harmonics: 60dBc Minimum
 Noise Floor: -80dBm Maximum
 Spurious Outputs: 65dBc Minimum (signal related Non-Harmonic) – see note below
 Carrier Stability: ±2x10⁻⁶ Maximum Over 0 – 55°C
 Phase Noise @ 1kHz offset: -85dBc/Hz (1MHz-6GHz)
 -80dBc/Hz (6GHz-12GHz)
 -75dBc/Hz (12GHz-18GHz)
 10.0 MHz @ 0dBm (±3dBm) / 50Ω input Impedance
 0 – 55°C Maximum
 External Reference: 400W Maximum
 Operating Temperature Range: 85-264VAC Auto Select
 AC Input Power: 47-440Hz
 AC Input Voltage: 47-440Hz
 AC Input Cycles:

J11 AC INPUT

PIN	DESIGNATION
A	LINE
B	NEUTRAL
C	GND, CHASSIS
D	N/C

• Power connector and pin-out per document number 500-50110: MS3112E8-4P
 • Physical control interface connector (DB-25) and pin-out per document number 500-50110
 • Unit supports PECL/RS-422/Front-panel communications per document number 500-50110
 • Communications software ICD per document 500-50110
 • All RF coaxial connections to be TNC type, with the exception of the 6-18GHz outputs which is Precision N-Type
 • Additional Installed Options:
 • Vibration hardening
 • Bypass switch – switch to bypass inputs IF input or AUX RF Input

WV MODEL FC-1019

NOTE:
 FOR CLARITY – ONLY 1 CHANNEL OF 2 IS SHOWN

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

APPROVALS	DATE
DRAWN CHIRAG S.	6/25/2010
CHECKED TT	06/25/10
MECH ENGR TT	06/25/10
ELEC ENGR UY	06/25/10
PRODUCTION AM	06/25/10
Q.A. DB	06/25/10

APPROVALS	DATE
DRAWN CHIRAG S.	6/25/2010
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MECH ENGR TT	06/25/10
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PRODUCTION AM	06/25/10
Q.A. DB	06/25/10

WV Communications 1176 Tourmaline Dr. Newbury Park, CA

CONVERTER DUAL CHANNEL
 70.0MHz to 1MHz – 18GHz

SIZE	CAGE CODE	DWG. NO.	REV
D	1GFQ7	050-50711	B

SCALE NONE SHEET 1 OF 1