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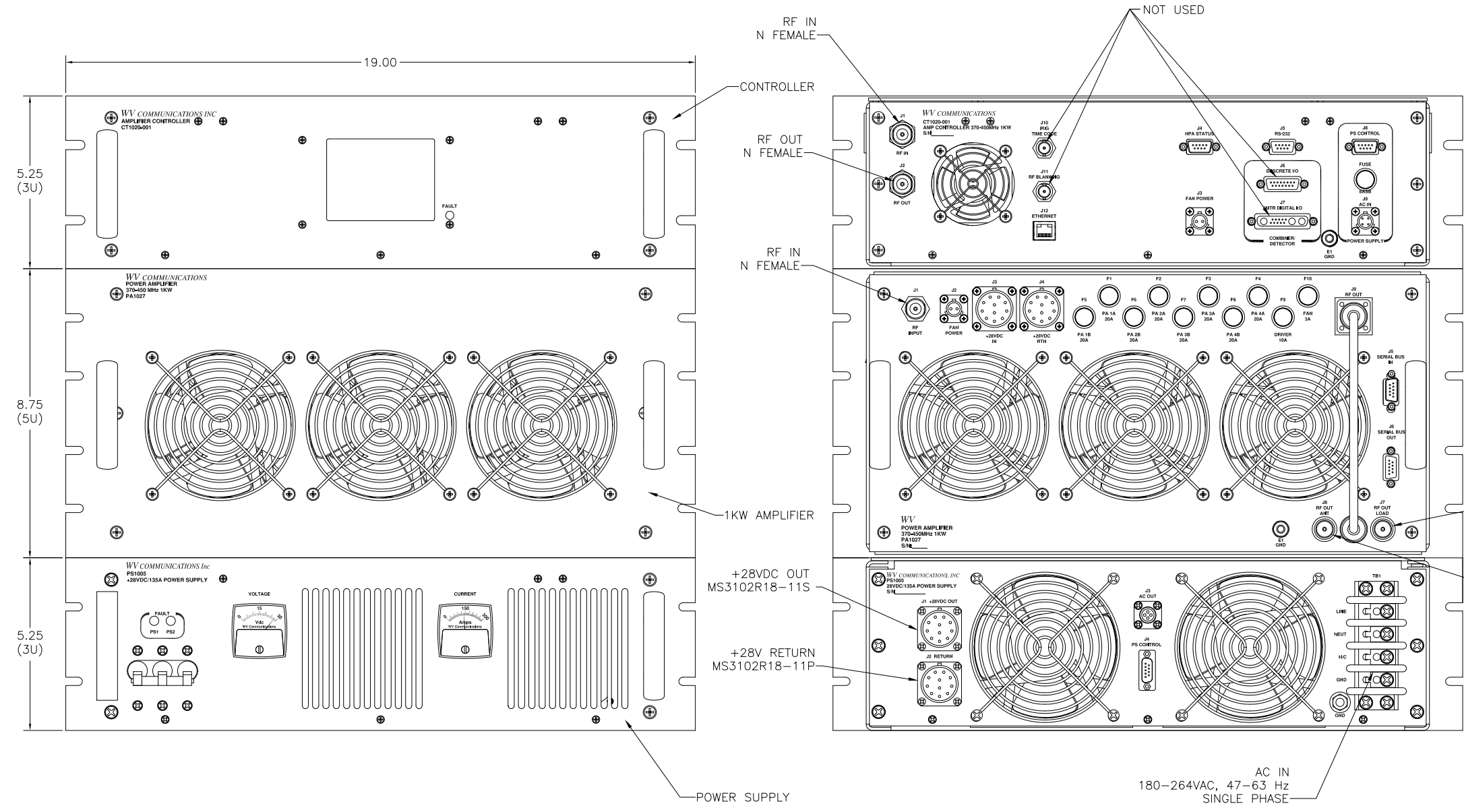
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		RELEASED	2/14/11	TT

SPECIFICATIONS SUMMARY

OPERATING FREQUENCY RANGES: 370-450MHz
RF OUTPUT POWER: 1KW Min at 1dB Compression
RF OUTPUT PROTECTION: Integral Output Isolator protected No Oscillation at any Phase Angle at any Load Impedance
RF INPUT POWER: -5dBm to +3dBm Nominal Range
MAXIMUM RF INPUT POWER: +10dBm Maximum W/O Damage
SMALL SIGNAL GAIN FLATNESS: ±1.5dB Maximum Into 1.05:1 VSWR
INPUT AND OUTPUT IMPEDANCE: 50 Ohm Nominal
INPUT VSWR: 2.0:1 Maximum (Ref 50 Ohm)
HARMONIC SIGNAL LEVELS: Integral Low Pass Filter
 -90dBc Maximum from 1100 – 2750MHz
 -55dBc Maximum
SPURIOUS SIGNAL LEVELS: Type N Female
RF OUTPUT CONNECTOR: 23dB Minimum
OUTPUT POWER CONTROL: 40dB on/off Ratio Minimum
RF OUTPUT TURN-ON-TIME: 50mSec Maximum after RF power received
MODULATION DISTORTION: 1% Maximum
LOCAL CONTROL: Via Color Touchscreen LCD Display
REMOTE CONTROL: Via RS-232C at 38.4KB,N,8,1, Ethernet UDP
COOLING: Forced air via integral Front Panel Intake and Rear Panel Exhaust Fans
OVER TEMPERATURE PROTECTION: System shut down when temperature reaches 85 degrees C
TEMPERATURE RANGES: Operating 0 to +50°C
ALTITUDE: MSL to 70,000 Ft
CHASSIS DEPTH: 26.75" Maximum
POWER SUPPLY: Redundant N+1 Configuration
 180-264VAC, 47-63Hz Single Phase at 3.0kW Maximum, 2.5kW Typical
AC INPUT POWER: 200 Lbs Typical
FRONT PANEL PAINT: Grey 26307 FED-STD-595A

D
C
B
A

D
C
B
A



AC IN
 180-264VAC, 47-63 Hz
 SINGLE PHASE

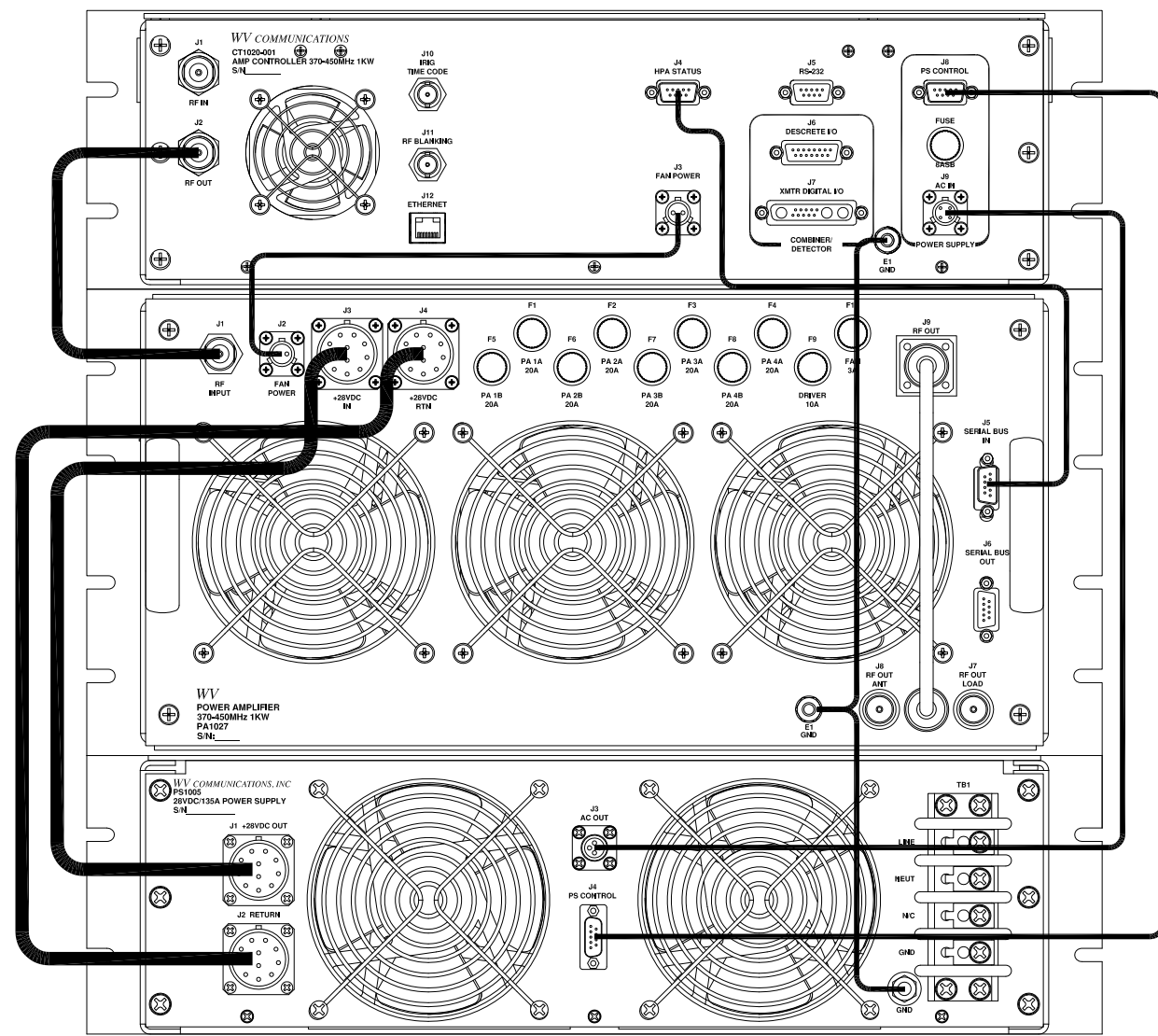
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		APPROVALS	DATE	WV Communications 1176 Tourmaline Dr. Newbury Park, CA
FRACTIONS	DECIMALS	ANGLES	Holes	
± 1/64	.XXX1	±0°30'	.XXX1	
	.XXX1		.XXX1	
MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX		FINISH		
900-50242-001	SYS1021-001	DRAWN	A. RABACAL	2/14/11
		CHECKED	DON B.	2/14/11
		MECH ENGR	T.T.	2/14/11
		ELEC ENGR	J.T.	2/14/11
		PRODUCTION	A.M.	2/14/11
		Q.A.	D.B.	2/14/11
NEXT ASSEMBLY	USED ON	DO NOT SCALE DRAWING		
APPLICATION		SIZE	CAGE CODE	DWG. NO.
		D	1GFQ7	050-50836
		SCALE	NONE	SHEET 1 OF 2

8 7 6 5 4 3 2 1

REV. NO. 050-50836

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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	SEE SHEET 1		



AMPLIFIER CONTROLLER
CT1020-001

POWER AMPLIFIER
PA1027

POWER SUPPLY
PS1005

REF DES	SIGNAL DESCRIPTION	FROM/TO	CBL P/N
CT1020-001			
A3			
A3J1	RF IN	A3J1 / CUSTOMER	CUSTOMER CABLE
A3J2	RF OUT	A3J2 / A2J1	CB-900-50242-A3.2
A3J3	FAN POWER	A3J3 / A2J2	CB-900-50242-A3.3
A3J4	HPA STATUS	A3J4 / A2J5	CB-900-50242-A3.4
A3J5	RS-232	A3J5 / CUSTOMER	CUSTOMER CABLE
A3J6	(NOT USED)		
A3J7	(NOT USED)		
A3J8	PS CONTROL	A3J8 / A1J4	CB-900-50242-A3.8
A3J9	AC IN	A3J9 / A1J3	CB-900-50242-A3.9
A3J10	(NOT USED)		
A3J11	(NOT USED)		
A3J12	ETHERNET	A3J12 / CUSTOMER	CUSTOMER CABLE
A3E1	GND	A3E1/A2E1/A1E1	CB-900-50242-A3.E1
PA1027			
A2			
A2J1	RF INPUT	A2J1 / A3J2	
A2J2	FAN POWER	A2J2 / A3J3	
A2J3	+28VDC IN	A2J3 / A1J1	CB-900-50242-A2.3
A2J4	+28VDC RETURN	A2J4 / A1J2	CB-900-50242-A2.4
A2J5	SERIAL BUS IN	A2J5 / A3J4	
A2J6	SERIAL BUS OUT	A2J6 / CUSTOMER	CUSTOMER CABLE
A2J7	RF OUT LOAD	A2J7 / CUSTOMER	CUSTOMER CABLE
A2J8	RF OUT ANT	A2J8 / CUSTOMER	CUSTOMER CABLE
A2E1	GND	A2E1/A3E1/A1E1	CB-900-50242-A2.E1
PS1005			
A1			
A1J1	+28VDC OUT	A1J1 / A2J3	
A1J2	RETURN	A1J2 / A2J4	
A1J3	AC OUT	A1J3 / A3J9	
A1J4	PS CONTROL	A1J4 / A3J8	
A1TB1	AC IN	A1TB1 / AC	AC POWER CABLE
A1E1	GND	A1E1/A2E1/A3E1	

REV A
DWG NO. 050-50836