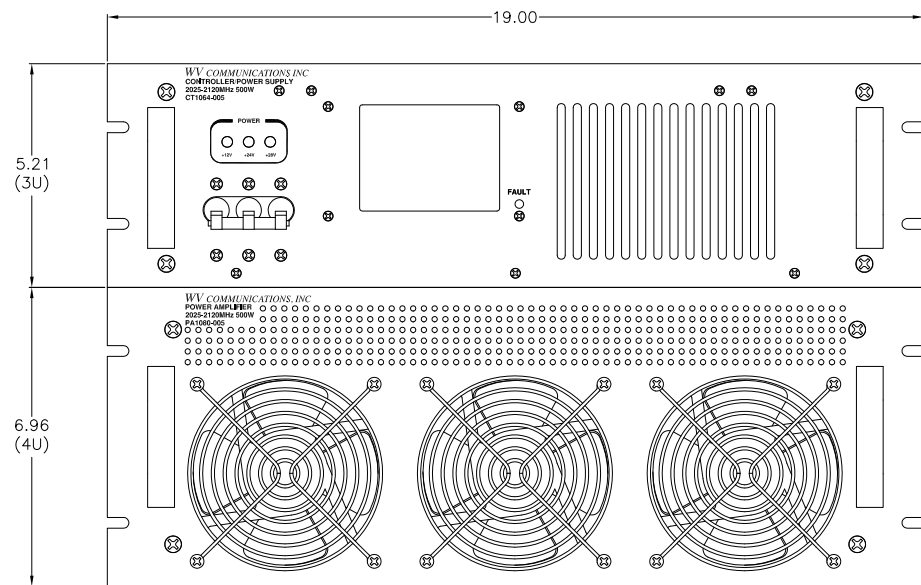


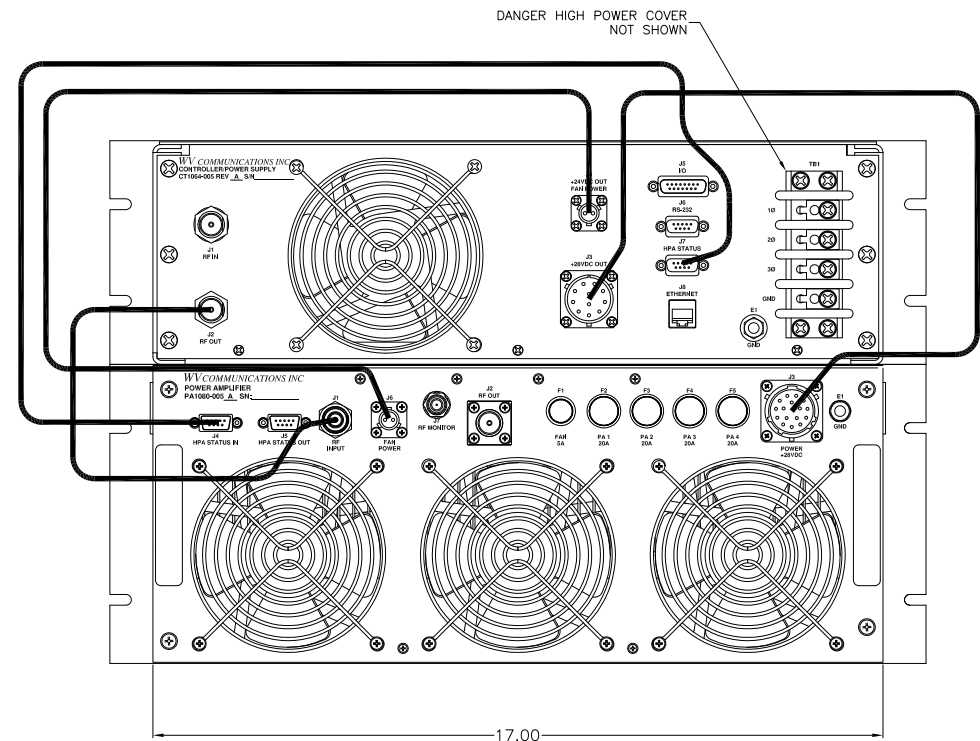
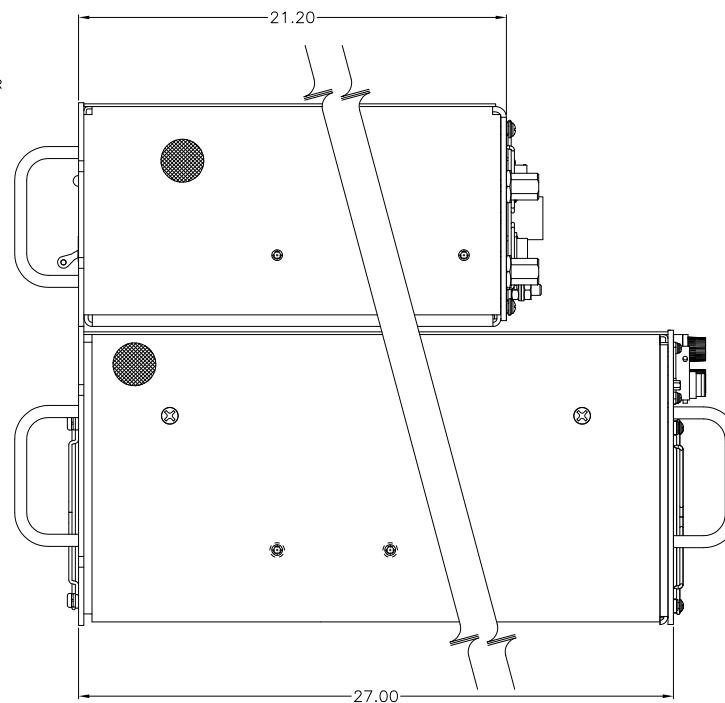
**** PROPRIETARY DATA ****
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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		RELEASED	11/05/14	TT



POWER SUPPLY/CONTROLLER
 2025-2120 500W
 050-50958 - CT1064-005

POWER AMPLIFIER
 2025-2120 500W
 050-50957 - PA1080-005



SPECIFICATIONS SUMMARY

OPERATING FREQUENCY RANGES: 2025-2120MHz
RF OUTPUT POWER: 500W Minimum at 1dB Compression
RF OUTPUT PROTECTION: Integral Output protected No Oscillation at any Phase Angle at any Load Impedance & Phase Angle
RF INPUT POWER: 0dBm±3dB Range Nominal
MAXIMUM RF INPUT POWER: +10dBm Maximum W/O Damage
RF OUTPUT POWER GAIN FLATNESS: ±2dB Maximum over 2025-2120MHz Into 1.3:1 VSWR (Ref 50Ω)
 ±0.25dB Maximum over any 4MHz Band in the 2025-2120MHz Range Into 1.3:1 VSWR
RESIDUAL AM: 50dBc Maximum
RESIDUAL PHASE NOISE: 2° RMS Maximum at 500Hz to 1MHz offset
INPUT AND OUTPUT IMPEDANCE: 50Ω Nominal
INPUT / OUTPUT VSWR: 2.0:1 Maximum (Ref 50Ω)
NOISE: -180dBc/Hz Maximum over 2200-2300MHz
SPURIOUS & HARMONICS LEVELS: -145dBc Maximum over 2200-2300MHz
 -55dBc Maximum in 2025-2120MHz
 -85dBc Maximum below 2025MHz & above 2300MHz
RF OUTPUT CONNECTOR: 'N' Female
OPERATION MODE: Class 'AB' Linear
OUTPUT POWER CONTROL: 25dB Range Minimum
OUTPUT POWER CONTROL STEP: 0.1dB Nominal
DRAWER COOLING: Forced air via integral Front Panel Intake and Rear Panel Exhaust Fans
OVER TEMPERATURE PROTECTION: Thermostat Shut-Off Indication at +77°C Heatsink Temperature
MONITORING & CONTROL: Local: Via Front Panel Color LCD Touchscreen
 Remote: Via Ethernet UDP Protocol/RS-232
MTBF: 10,000 Hours Nominal
MTTR: 1.25 Hours Nominal
TEMPERATURE RANGES: Operating 0 to +50°C
ALTITUDE: MSL to 10,000 Ft
HUMIDITY: 0 to 95% Non-Condensing
DRAWERS CHASSIS DEPTH: 27" Maximum
AC INPUT POWER: 180-264VAC, 47-63Hz Three (3) Phase at 2.5KW Maximum
 (2KW Typical at 500W RF Output Power)
FRONT PANEL COLOR: GRAY per MIL-STD-595 26307

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES HOLES
 ± 1/64 .XXX.01 ±0°30' .XXX.005
 .XXX.005 .XXX.003 .XXX.001
 MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX

MATERIAL	FINISH
900-50403	SYS1044
900-50402	SYS1041-005
NEXT ASSEMBLY	USED ON
APPLICATION	DO NOT SCALE DRAWING

APPROVALS	DATE
DRAWN TONY T.	11/5/2014
CHECKED TT	11/05/14
MECH ENGR TT	11/05/14
ELEC ENGR JT	11/05/14
PRODUCTION AM	11/05/14
Q.A. SH	11/05/14

WV Communications 1125 A Business Center Circle
 Newbury Park, CA

AMPLIFIER SYSTEM
 2025-2120MHz 500W
 MODEL: SYS1041-005

SIZE D	CAGE CODE 1GFQ7	DWG. NO. 050-50956	REV A
SCALE NONE	SHEET 1 OF 1		

DWG NO. 050-50956
 REV A
 DC-PDRM-0011-3, REV C, 06/08