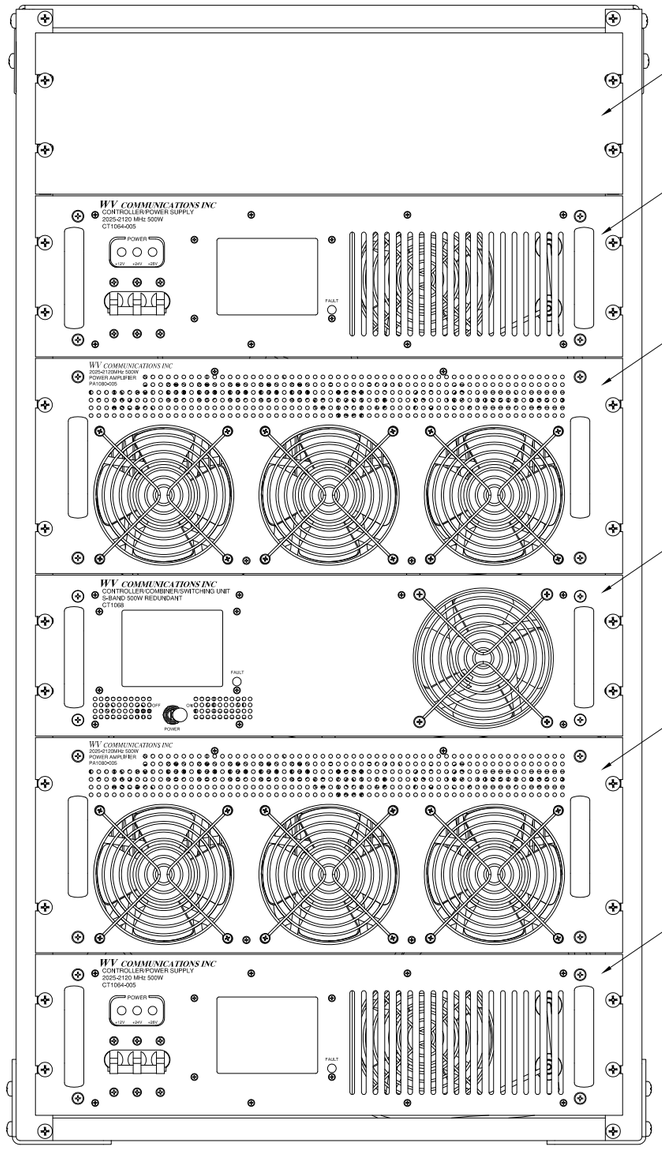
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	11/05/14	TT



REDUNDANT/COMBINED AMPLIFIER SPECIFICATIONS SUMMARY

OPERATING FREQUENCY RANGES:	2025-2120MHz
RF OUTPUT POWER:	Two each 500W Minimum at 1dB Compression
RF OUTPUT MODES:	
Mode 1:	Two each 500W Minimum at P1dB Compression Operating One Amplifier at the time, 2nd Amplifier in Backup mode
Mode 2:	Combined Amplifiers
AMPLIFIER SWITCHING:	Automatic Blanking to facilitate safe switching with all modes
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

900–50403	SYS1044
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 ±.001
MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX
MATERIAL – –
FINISH – –
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 REDUNDANT
MODEL: SYS1044

SIZE	CAGE CODE	DWG. NO.	REV
D	1GFQ7	050–50959	A

SCALE NONE SHEET 1 OF 1

REV A
DWG NO. 050–50959

DC-FORM-50010-A, REV C, 04/08