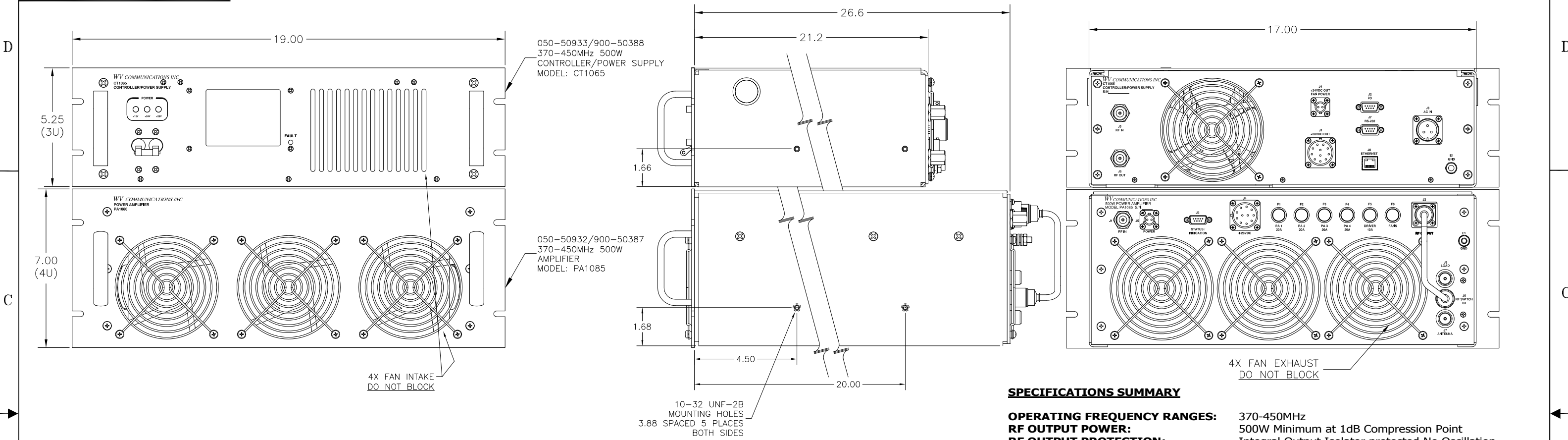


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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	3/12/2014	JMO



**SPECIFICATIONS SUMMARY**

**OPERATING FREQUENCY RANGES:** 370-450MHz  
**RF OUTPUT POWER:** 500W Minimum at 1dB Compression Point  
**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:** 50Ω Nominal  
**INPUT VSWR:** 2.0:1 Maximum (Ref 50Ω)  
**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  
**RF OUTPUT TURN-ON-TIME:** 50mSec Maximum after RF power received  
**LOCAL CONTROL:** Via Color Touchscreen LCD Display  
**REMOTE CONTROL:** Via RS-232C at 9.6-115.2KB, 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 Heatsink temperature reaches 85 degrees C  
**TEMPERATURE RANGES:** Operating 0 to +50°C  
 Storage -40 to +70°C  
**ALTITUDE:** MSL to 70,000 Ft  
**CHASSIS DEPTH:** 26.75" Maximum  
**AC INPUT POWER:** 180-264VAC, 47-63Hz One (1) Phase at 1.5kW Maximum  
**WEIGHT:** 100 LBs Nominal  
**FRONT PANEL PAINT:** Grey 26307 FED-STD-595A

AMPLIFIER CONNECTORS		CONTROLLER/POWER SUPPLY CONNECTORS	
J1 RF IN N FEMALE	J4 +28V IN PT02E-18-11P	J1 +28V OUT PT02E-18-11S	J2 I/O
J2 RF OUT N FEMALE	PIN NO. PIN NAME	PIN NO. PIN NAME	PIN NO. PIN NAME
J3 STATUS / INDICATION	A +28V DRIVER	A +28V DRIVER	1 SPARE
PIN NO. PIN NAME	B +28V FINAL	B +28V FINAL	2 SPARE
1 SPARE	C +28V FINAL	C +28V FINAL	3 SPARE
2 SPARE	D +28V FINAL	D +28V FINAL	4 SPARE
3 SPARE	E +28V FINAL	E +28V FINAL	5 GND
4 SPARE	F +28V RTN	F +28V RTN	6 SPARE
5 GND	G +28V RTN	G +28V RTN	7 DATA+
6 SPARE	H +28V RTN	H +28V RTN	8 DATA-
7 DATA+	J +28V RTN	J +28V RTN	9 ADDRESS
8 DATA-	K +28V RTN	K +28V RTN	
9 ADDRESS	L GND	L GND	
	J5 FAN +24V IN MS3112E8-2P		J3 AC IN MS3102E16-10P
	PIN NO. PIN NAME		PIN NO. PIN NAME
	A +24V		A LIVE
	B +24V RTN		B NEUTRAL
			C GROUND
			J4 FAN +24V OUT MS3112E8-2S
			PIN NO. PIN NAME
			A +24V
			B +24V RTN
			J5 RF IN N FEMALE
			J6 RF OUT N FEMALE
			J7, RS-232C 9 PIN 'D' SUB
			PIN NO. PIN NAME
			1 N/C
			2 RX
			3 TX
			4 N/C
			5 GND
			6 N/C
			7 RTS
			8 CTS
			9 N/C
			J8 ETHERNET RJ45
			PIN NO. PIN NAME
			1 TX+
			2 TX-
			3 RX+
			4 N/C
			5 N/C
			6 RX-
			7 N/C
			8 N/C

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS DECIMALS ANGLES HOLES ± 1/64 .XXX.01 ±0°30' .XXX.005 .XXX.005 .XXX.005 .XXX.005 MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX		APPROVALS	DATE	1125-A Business Center Circle Newbury Park, CA <b>AMPLIFIER SYSTEM</b> 370-450MHz 500W MODEL: SYS1031
900-50389	SYS1031	DRAWN TONY T.	3/12/2014	
NEXT ASSEMBLY	USED ON	CHECKED TONY T.	20FEB06	SIZE CAGE CODE DWG. NO. REV
APPLICATION	DO NOT SCALE DRAWING	MECH ENGR GG	20FEB06	D 1GFQ7 050-50934 A
		ELEC ENGR JT	20FEB06	SCALE NONE SHEET 1 OF 1
		PRODUCTION AM	20FEB06	
		Q.A. DB	20FEB06	