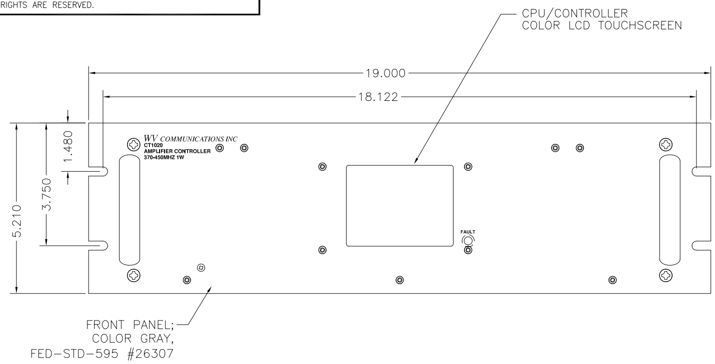
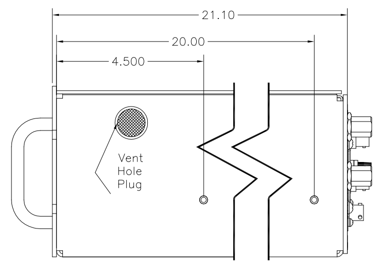
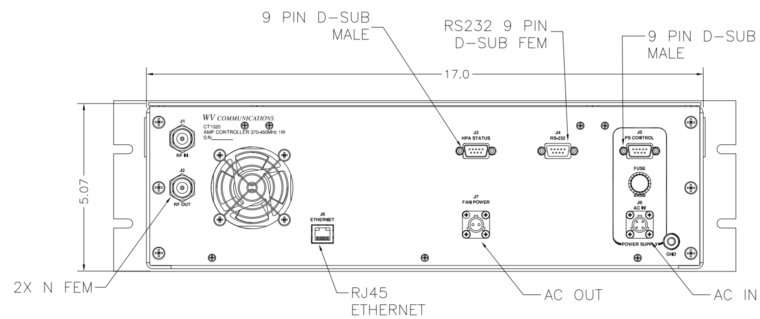
** PROPRIETARY DATA **
THIS DOCUMENT CONTAINS DATA WHICH IS PROPRIETARY OR CONFIDENTIAL TO WV COMM (WV COMMUNICATIONS INCORPORATED). THIS DOCUMENT AND THE DATA CONTAINED HEREIN SHALL NOT BE USED, DUPLICATED, OR ALTERED WITHOUT THE EXPRESSED WRITTEN CONSENT OF WV COMM. ALL RIGHTS ARE RESERVED.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASE	2JUN08	GG
	B	REMOVED J6, J7, J10 & J11	30JUN08	RB







J3 – HPA STATUS	
PIN NO.	FUNCTION
1	FWD DET PWR
2	RELAY CRTL
3	RELAY IND
4	GND
5	GND
6	RFL DET PWR
7	DATA+
8	DATA–
9	ADDR

J4 – RS-232	
PIN NO.	PIN NAME
1	N/C
2	RX
3	TX
4	N/C
5	GND
6	N/C
7	N/C
8	N/C
9	N/C

J5 – PS CONTROL	
PIN NO.	FUNCTION
1	V1 Monitor in
2	V2 Monitor in
3	PS Enable out
4	I1 Monitor in
5	I2 Monitor in
6	PS1 Fault in
7	PS2 Fault in
8	+12VDC RTN
9	+12VDC Out

J6 ETHERNET	
PIN NO.	PIN NAME
1	TX+
2	TX–
3	RX+
4	N/C
5	N/C
6	RX–
7	N/C
8	N/C

J7 – FAN POWER	
PIN NO.	FUNCTION
1	+24V
2	GND

J8 – AC IN	
PIN NO.	FUNCTION
A	AC LINE
B	AC NEUTRAL
C	SAFETY GND
D	SPARE

RF SPECIFICATIONS:

OPERATING FREQUENCY RANGES:	370-450MHz
RF OUTPUT POWER:	0.25W Minimum @ 1dB Comp
GAIN:	30dB Minimum at 1dB Comp
RF INPUT POWER W/O DAMAGE:	10dBm Maximum
SMALL SIGNAL GAIN FLATNESS:	±1dB Maximum Into 1.25:1 Load VSWR
INPUT AND OUTPUT IMPEDANCE	50 Ohm Nominal
INPUT VSWR	2.0:1 Maximum (Ref 50 Ohm)
SPURIOUS SIGNAL LEVELS:	-60dBc Maximum
TEMPERATURE RANGES:	Operating 0 to +50°C
COOLING REQUIRED:	Via Forced Air Exhaust Fan
INTEGRAL VVA RANGE:	0-30dB Minimum
INTEGRAL VVA CONTROL:	0Vdc-Min Gain +5Vdc Max Gain

CPU/CONTROLLER

LOCAL CONTROL:	Via Color Touchscreen LCD Display
REMOTE CONTROL:	RS-232C at 38.4KB,N,8,1 ETHERNET UDP
AC INPUT POWER AT:	115/230VAC at 200VA Amp Maximum 47-63 Hz Single Phase
FRONT PANEL COLOR:	Gray, per FED-STD-595 - 26307

900-50226	SYS1021
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 +.003 −.001
MACHINED FINISH: 32 RMS
REMOVE BURRS .005 MAX
MATERIAL
FINISH
DO NOT SCALE DRAWING

APPROVALS		DATE
DRAWN	G. GODDARD	2JUN08
CHECKED	TONY T.	02JUN08
MECH ENGR	GG	02JUN08
ELEC ENGR	JT	02JUN08
PRODUCTION	AM	02JUN08
Q.A.	UY	02JUN08

WV Communications 1176 Tourmaline Dr. Newbury Park, Ca.

CONTROLLER AMPLIFIER
370–450MHz 1W
CT1020

SIZE D | CAGE CODE 1GFQ7 | DWG. NO. 050–50663 | REV B
SCALE NONE | SHEET 1 OF 1

DWG. NO. 050–50663 REV B

DC-FORM-00015-3, REV C, 06/98