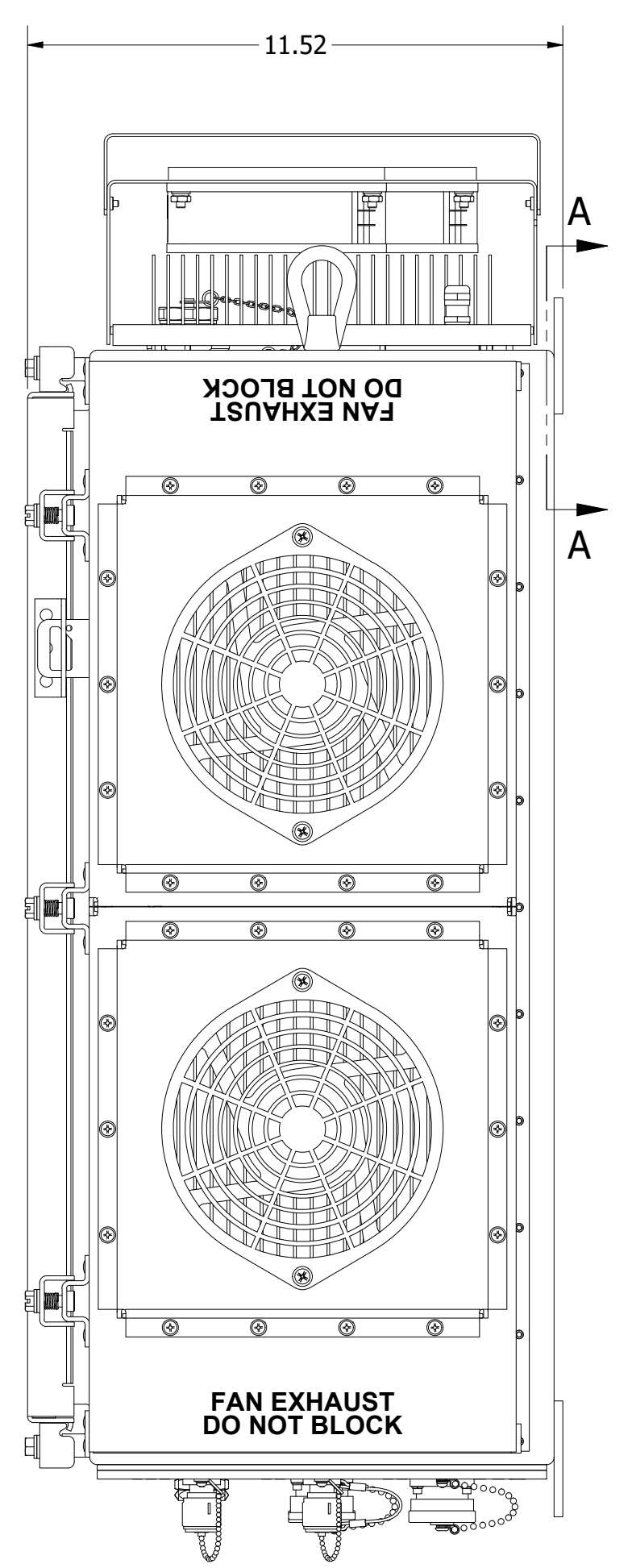
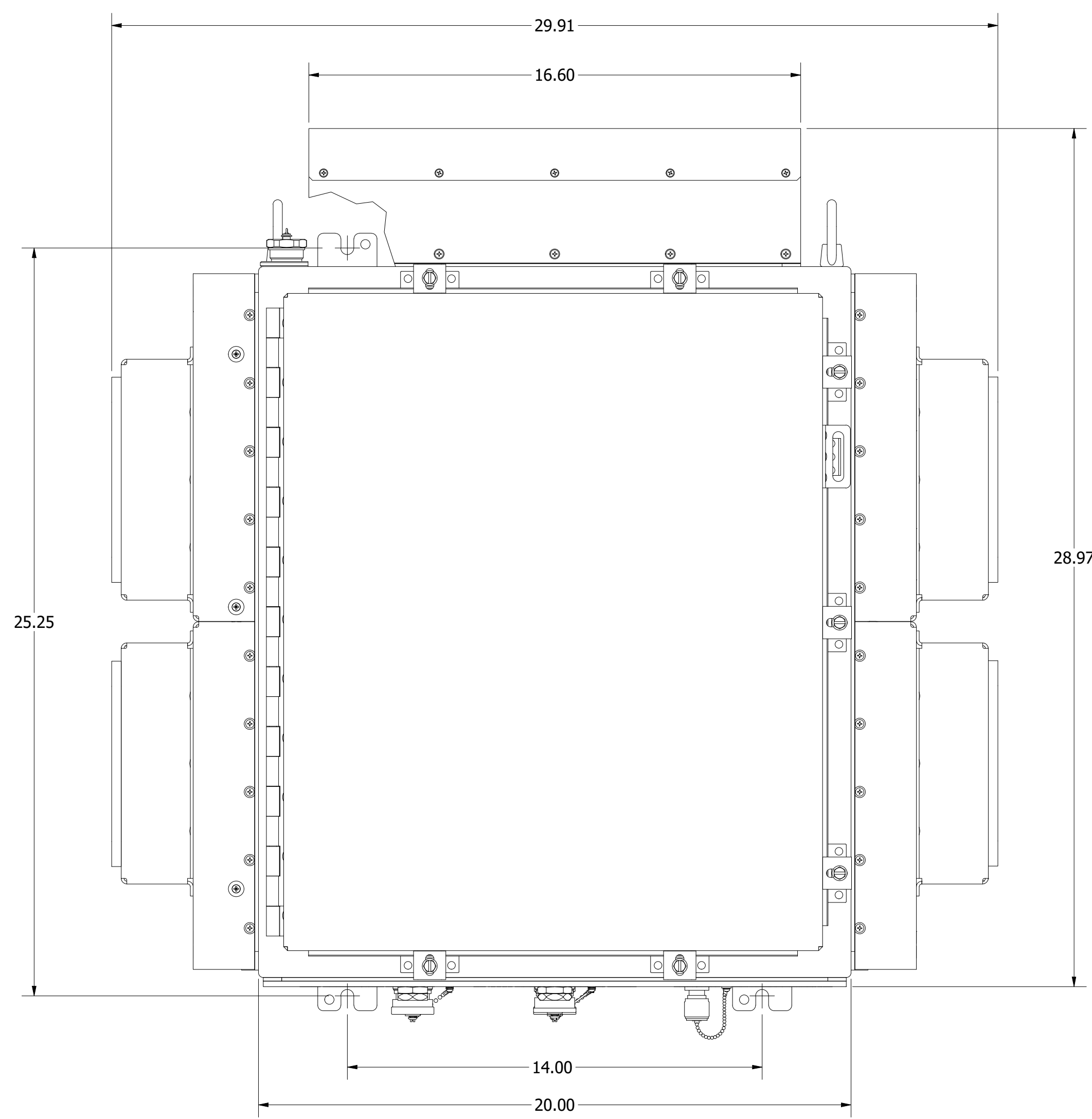
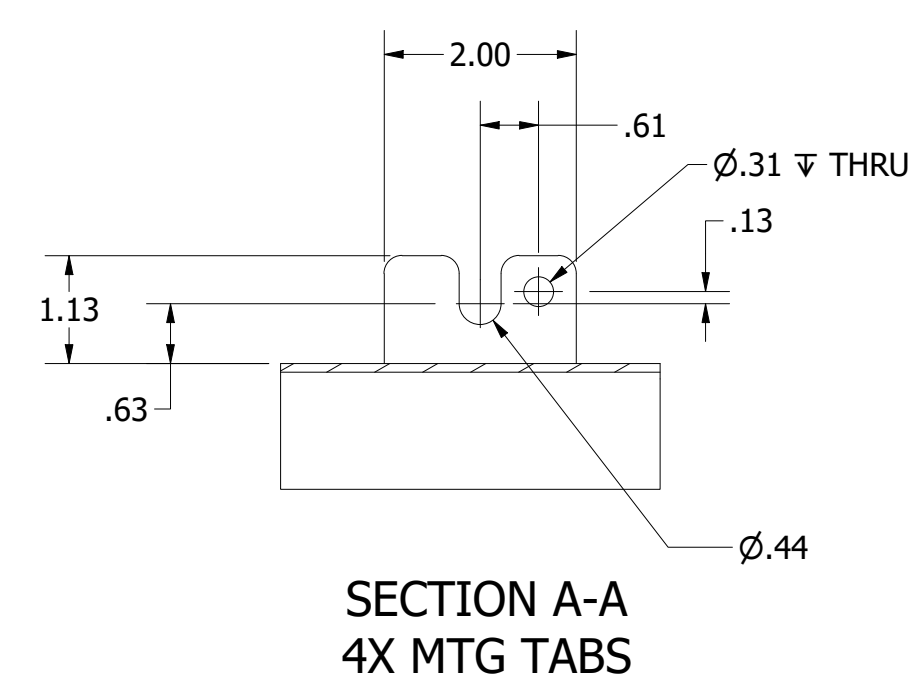
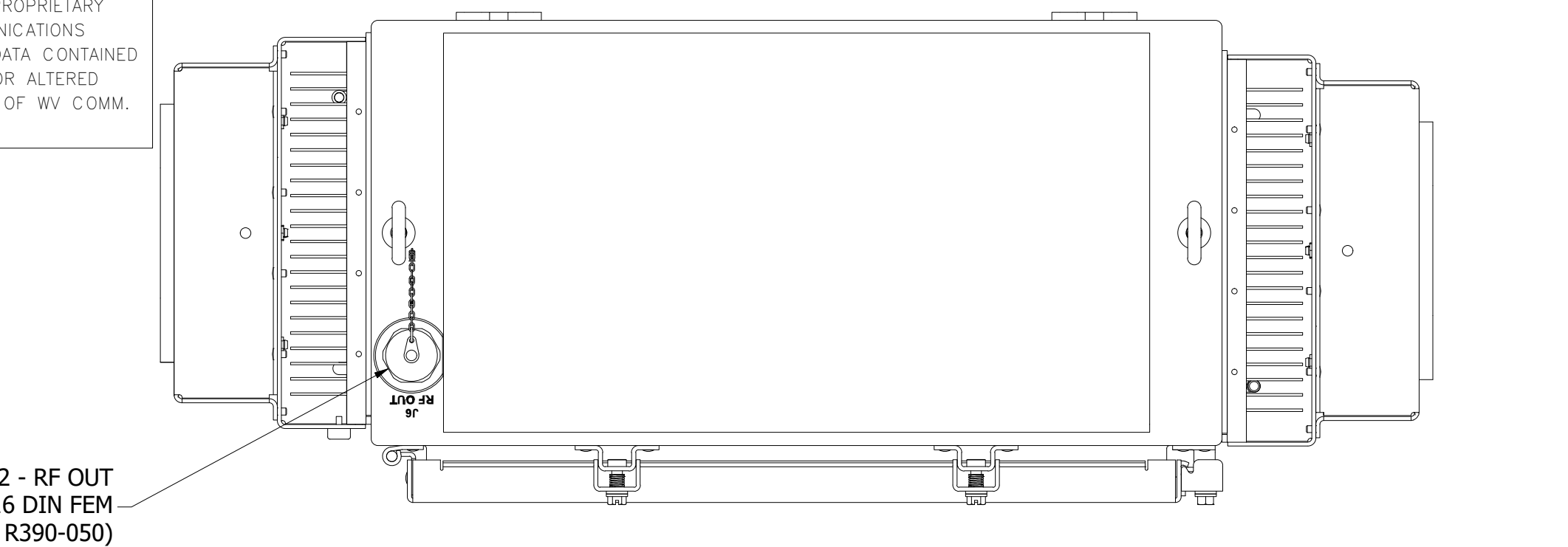
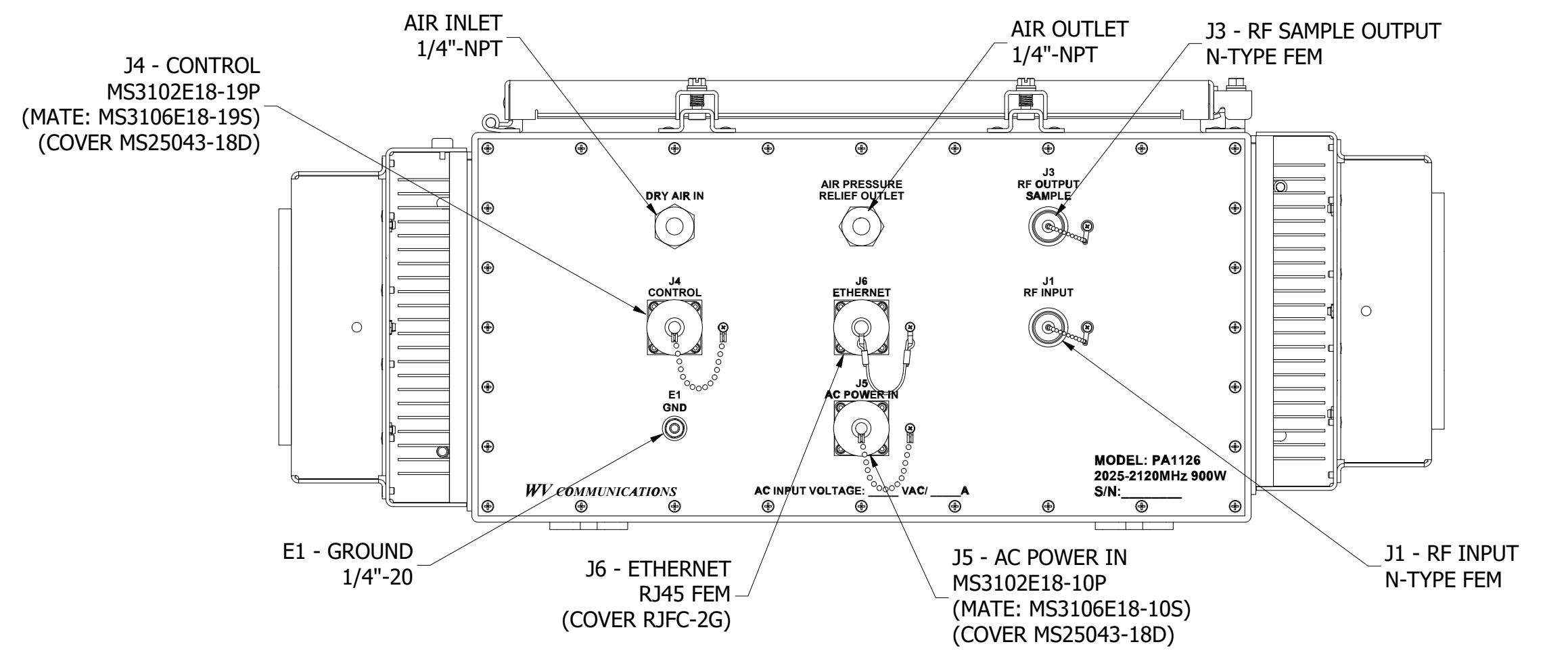


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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	12/21/2021	TT
	B	J5-D WAS:SAFETY GROUND, HARMONICS WAS:-60dBc	9/29/2022	UY/tt



**RF OPERATING FREQUENCY RANGE:** 2025-2120MHz  
**RF OUTPUT POWER:** 900W (+59.5dBm) Minimum at P3dB Comp Pt.  
**RF INPUT POWER:** 0dBm Nominal  
**RF INPUT POWER W/O DAMAGE:** +25dBm Maximum  
**SMALL SIGNAL GAIN:** 60dB Minimum at P3dB Comp pt.  
**GAIN STABILITY:** ±1.5dB Maximum over operating temperature range  
**GAIN FLATNESS:** ±1.5dB p-p Maximum over 2025-2120MHz band, 1dB p-p Maximum over any 20MHz Range  
**LOAD VSWR:** 0.2dB p-p Maximum over any 1MHz bands into 1.25:1 Load VSWR  
**RF ATTENUATION RANGE:** Protected to operate into any Load Mismatch & Phase angle without Damage  
**INPUT AND OUTPUT IMPEDANCE:** 50Ω Nominal  
**INPUT/OUTPUT VSWR:** 1.3:1 Maximum (Ref 50Ω)  
**NOISE FIGURE:** 8dB Maximum @ maximum gain  
**RESIDUAL AM NOISE:** -45dBc/0-10KHz, -78dBc at 500kHz, -80dBc over 0.5-1MHz  
**TWO TONE INTERMODULATION:** -25dBc Maximum @ 3dB backoff from P3dB Comp Pt. -29dBc Maximum @ 7dB backoff from P3dB Comp Pt.  
**HARMONIC SIGNAL LEVELS:** -30dBc Maximum  
**SPURIOUS SIGNAL LEVELS:** -60dBc Maximum over 2200-2300MHz -90dBc over 7.6-8.5GHz  
**RF MONITOR OUTPUT PORT:** -50dBc ±2dB Maximum  
**GROUP DELAY:** Linear: 0.02ns/MHz Maximum  
 Parabolic: 0.003ns/MHz<sup>2</sup> Maximum  
 Ripple: 1.0ns p-p Maximum  
**AM/PM CONVERSION:** 2.5°/dB Maximum @ P3dB  
**OPERATION MODES:** Linear (VVA), Auto Level Control (ALC)  
**STANDARD FEATURES:** Amplifier STANDBY/ONLINE, Mute Power Units in dBm or Watts, Power Adjustment, Output Thermal Overload/Shutdown, FWD/REF RF Output Power, Power Supply Voltage & Current, RF Power Module(s) Status/ Fault, Muting  
**INDICATORS & ALARMS:** Operating: -20 to +55°C (-20°C with 10 minutes warmup) Non-Operating: -40 to +85°C  
**TEMPERATURE RANGES:** Via Internal Color Touchscreen LCD  
**LOCAL CONTROL:** Ethernet UDP/IP & RS-422 (both)  
**REMOTE CONTROL INTERFACE:** Via J5 PINS A&B  
**TX INHIBIT:** >18Vdc - Amplifier On (24Vdc Nominal) <6Vdc - Amplifier Off  
**COOLING REQUIRED:** Via Built-In Forced Air Cooling  
**AMPLIFIER PROTECTION:** Over temperature, VSWR & Overdrive  
**AC INPUT POWER:** 208±10%VAC, 47-63 Hz, Three Phase, 4,800W Maximum  
**CONNECTORS:** RF input & Sample N-type Female, Output 7/16 DIN Female  
**RF INPUT, OUTPUT & SAMPLE CONTROL (I/O):** 10-Pin MS-type RS-232/Control (mate provided) RJ45 Ethernet, RFJTV21 7-Pin MS-type (mate provided)  
**ENCLOSURE:** Waterproof with Positive Pressure air inlet, 1 PSI Safety relief valve  
**WEIGHT:** 120Lbs Maximum  
**SIZE:** 29.7"X28.5"X11.50"  
**PAINT:** White Color # 17925 Fed-std-595 Per MIL-PRF-82585



EXTERNAL INTERFACE CONNECTORS			
REF DES	DESCRIPTION	CONN TYPE	CONN MATE
J1	RF INPUT	N-TYPE FEM	N-TYPE MALE
J2	RF OUTPUT	7/16 DIN-F	7/16 DIN-M
J3	RF SAMPLE OUTPUT	N-TYPE FEM	N-TYPE MALE
J4	CONTROL	MS3102E18-19P	MS3106E18-19S
J5	AC POWER	MS3102E18-10P	MS3106E18-10S
J6	ETHERNET	RJ-45	RJ-45

J4 - CONTROL	
PIN#	DESCRIPTION
A	REMOTE INTERLOCK +V
B	REMOTE INTERLOCK -V
C	N/U
D	RX+
E	RX-
F	RS-422 RTN
G	TX+
H	TX-
J	N/U
K	N/U

J6 - ETHERNET	
PIN#	DESCRIPTION
1	TX+
2	TX-
3	RX+
4	N/U
5	N/U
6	RX-
7	N/U
8	N/U

J5 - AC POWER	
PIN#	DESCRIPTION
A	PHASE 1
B	PHASE 2
C	PHASE 3
D	NEUTRAL

APPROVALS		DATE
DRAWN	TONY T	12/21/2021
CHECKED	TT	12/21/2021
MECH ENGR	TT	12/21/2021
ELEC ENGR	TT	12/21/2021
PRODUCTION	AM	12/21/2021
Q.A.	SG	12/21/2021

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:  
 FRACTIONS DECIMALS ANGLES HOLES  
 ± 1/64 .XX ± 0.01 ± 0.30° .XX ± .005  
 MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX MATERIAL

**WV Communications** 1125 A Business Center Circle  
 Newbury Park, CA

**AMPLIFIER**  
 2025-2120MHz 900W OUTDOOR  
 MODEL: PA1126

SIZE	CAGE CODE	DWG. NO.	REV
D	1GFQ7	050-51128	A
SCALE	MODEL NO.	SHEET	1 OF 1
NONE	PA1126	1	

050-51128

A

B

C

D

8

7

6

5

4

3

2

1