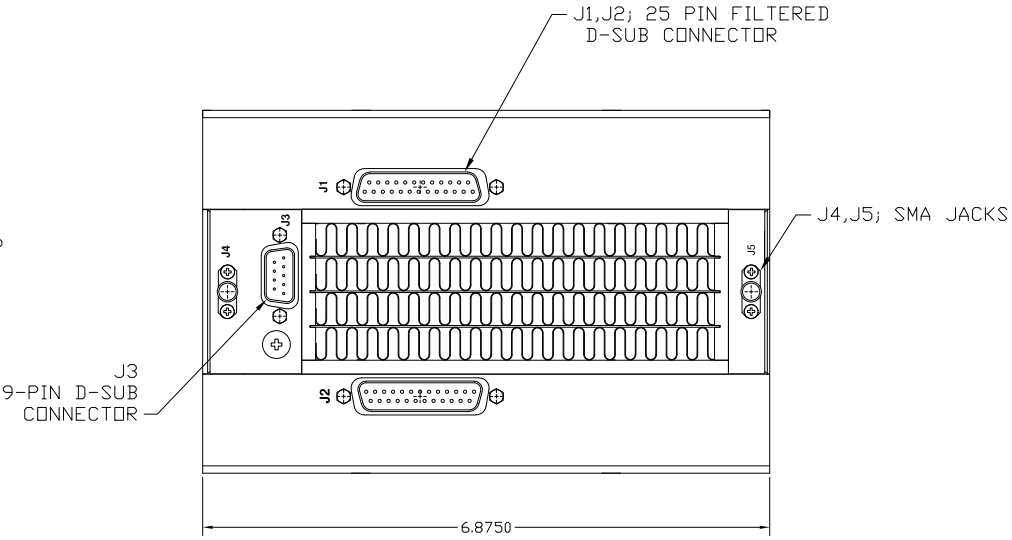
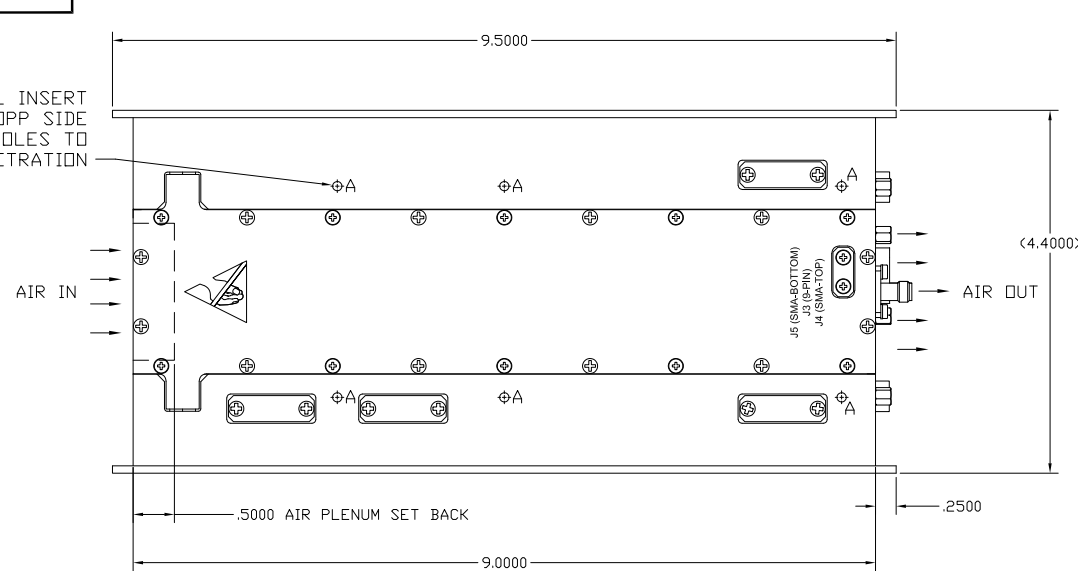


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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	4/7/16	JD

D

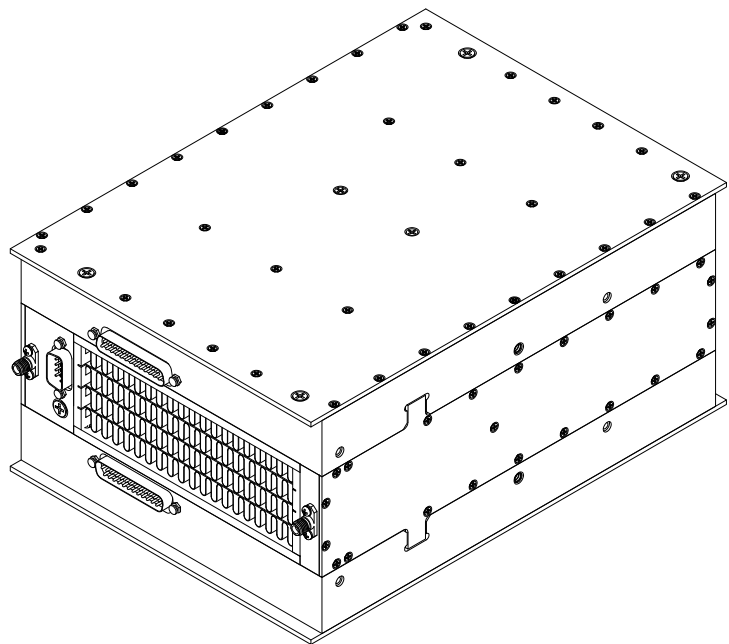
.138-32 UNC STAINLESS STEEL INSERT
 6PL MARKED A, TYP OPP SIDE
 MOUNTING HOLES TO
 ACCEPT .25 THD PENETRATION



C

B

B



J1/J2 PIN #	FUNCTION NAME
1	+34 VDC
2	+34 VDC
3	+34 VDC
4	+34 VDC
5	+34 VDC
6	+34 VDC
7	+34 VDC
8	+34 VDC
9	N/C
10	+12 VDC
11	+5 VDC
12	N/C
13	INTERLOCK 2 (*)
14	34 VDC RET
15	34 VDC RET
16	34 VDC RET
17	34 VDC RET
18	34 VDC RET
19	34 VDC RET
20	34 VDC RET
21	34 VDC RET
22	LVDC RET
23	LVDC RET
24	LVDC RET
25	INTERLOCK 1*

(*) INTERLOCKS CONNECTED ON J2 ONLY

J3 PIN #	FUNCTION NAME
1	MOD_GATE
2	MOD_FAULT
3	THERMAL_FAULT
4	LOGIC RETURN
5	NOT USED
6	DC_POWER INPUT_FAULT
7	NOT USED
8	NOT USED
9	GROUND
J4	RF INPUT
J5	RF OUTPUT

SPECIFICATIONS SUMMARY

OPERATING FREQUENCY RANGES: 1030-1090MHz
OPERATION MODE: Class AB (Supports all IFF modes of operation including Mode S & Mode 5)
RF INPUT POWER: -20 to +11dBm
RF INPUT VSWR: 1.5:1 Maximum
RF INPUT MODULATION: RF Pulse arbitrary Phase Modulation 15MHz at 3dB Maximum, AM at 30dB Maximum
RF OUTPUT POWER RANGE: 1030MHz +53 to +66dBm (P1dB) Minimum
 1090MHz +51 to +64dBm (P1dB) Minimum
RF OUTPUT POWER: +67dBm Maximum at 8% Duty Cycle
RF OUTPUT PULSE WIDTH: 32 μS Maximum
RF OUTPUT VSWR: 1.5:1 Maximum (Ref 50Ω)
RF OUTPUT: Will operate into 10:1 VSWR without damage (protected by output Isolator)
SMALL SIGNAL GAIN & FLATNESS: 55±1.5dB Maximum into 1.05:1 VSWR
INPUT AND OUTPUT IMPEDANCE: 50Ω Nominal
HARMONIC SIGNAL LEVELS: 2nd -30dBc, 3rd -50dBc Maximum
 4th -65dBc, 5th -70dBc Maximum
 6th -75dBc, 7th -80dBc Maximum
 8th through 12th -90dBc Maximum
COOLING: Customer supplied Forced air via integral Front and Rear Panel Openings
FAULT INDICATIONS: Thermal, MOD Gate
 DC Input Power below Threshold
TEMPERATURE RANGES: Operating: -25 to +65°C
 Storage: -55 to +71°C
RELATIVE HUMIDITY At 25°C - to 90% (Non-Condensing)
 Storage - 10% to 90% (Non-Condensing)
ALTITUDE: MSL to 15,000 Ft
DC INPUT POWER: 5Vdc at 0.2 Amp Maximum
 12Vdc at 0.3 Amp Maximum
 34Vdc at 8 Amps Maximum

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DRAWING PER MIL-STD-100 AND ANSI Y14.5 1982 (AR).
2. MATERIAL: SEE ASSEMBLY DRAWING AND PARTS LIST 900-50208-002.
3. FINISH: ALL DIMENSIONS APPLY AFTER FINISH. CHEM FILM YELLOW PER MIL-C-5541, CLASS 3.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		APPROVALS	DATE	<i>WV Communications</i> 1125-A Business Center Circle Newbury Park, CA
FRACTIONS	DECIMALS	ANGLES	HOLE	
± 1/64	.XXX-01	±0°30'	.XXX-005	AMPLIFIER IFF PWR AMP 1030-1090MHz 4000W PA1033-001
.XXX-005	.XXX-005	.XXX-005	.XXX-001	
MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX		CHECKED	UY	4/7/16
MATERIAL		MECH ENGR	TT	4/7/16
FINISH		ELEC ENGR	JT	4/7/16
NEXT ASSEMBLY USED ON		PRODUCTION	AM	4/7/16
APPLICATION		Q.A.	DH	4/7/16

SIZE	CAGE CODE	DWG. NO.	REV
D	1GFQ7	050-50614-001S	A
SCALE	NONE	SHEET 1 OF 1	

DWG 050-50614-001S REV A

A

8

7

6

5

4

3

2

1