

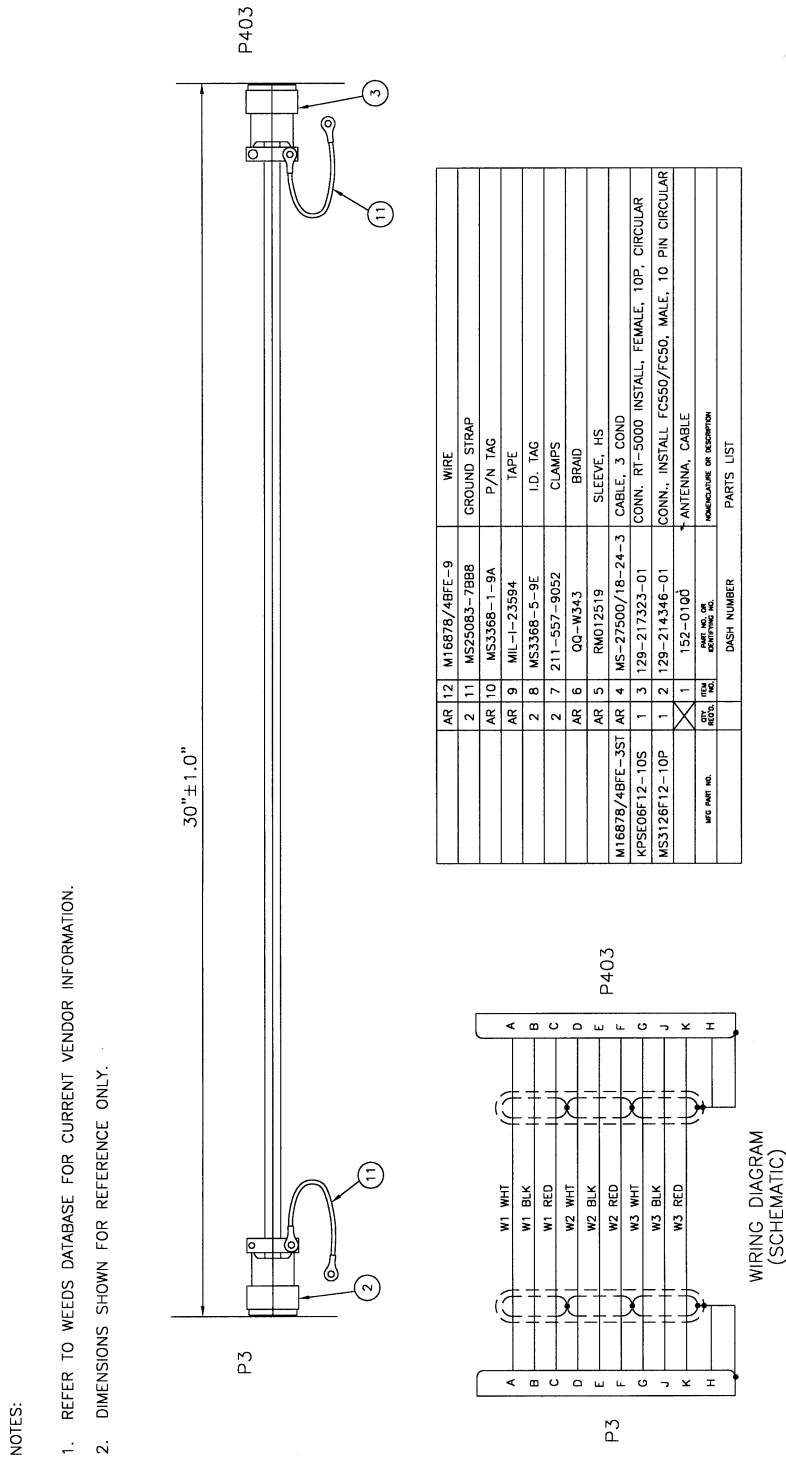


## C-5000 COMMUNICATION MANAGEMENT CONTROLLER INSTALLATION MANUAL

1	21	2156-000	CONNECTOR, DSUB, 25 PIN, 1/2" SL., W/BACK-SHELL
AR 20	M23033/A-103-9	EXPANDO SLEEVING, 3/R	
AR 19	1332 (3/8")	EXPANDO SLEEVING, 1/A*	
AR 18	16176-2	TERMINAL	
3	17	724-522-9009	SPLICES
4	16	MR1824/A-3	SHIELD TERM.
AR 14	MS27259-16-24	WIRE	
3	13	MS25063-7888	GROUND STRIP
1	12	MS3366-1-9A	P/N TAGS
5	11	MS3366-5-9E	I.D. TAGS
AR 10	PT-1/2	SLEEVING	
AR 9	RMD2519	SLEEVING	
AR 8	MS2720/18-24-2	CABLE-T COND	
AR 7	S8935105	WIRE	
6	1	M30629/31-223	CONTACT
KPC606/14-8S	3	129-27321-01	CONNECTOR
KPC606/22-4S	1	129-27327-01	CONNECTOR
MS320P6-3S	1	1	MS32174-61P
	1	1	152-0300
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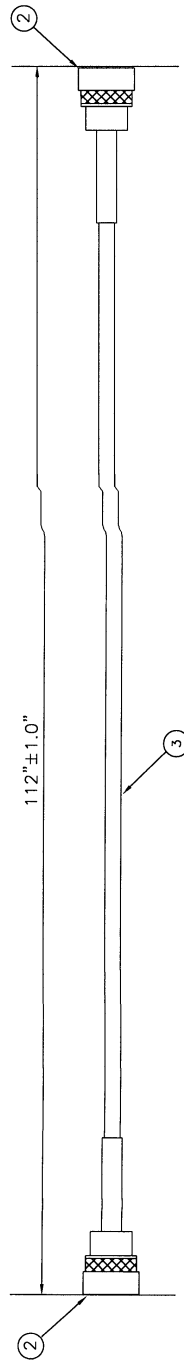
**C-5000 COMMUNICATION MANAGEMENT CONTROLLER  
 INSTALLATION MANUAL**



**Figure B-9. Cable, Antenna  
 FLEXCOMM I / FLEXCOMM II (Sheet 1 of 1)  
 Dwg No. 153-041055, Rev C**



**C-5000 COMMUNICATION MANAGEMENT CONTROLLER  
 INSTALLATION MANUAL**



NOTES:

1. REFER TO WEEDS DATABASE FOR CURRENT VENDOR INFORMATION.
2. DIMENSIONS SHOWN FOR REFERENCE ONLY.


QTY	ITEM	UNIT	DESCRIPTION	REF.	PARTS LIST
1	3	RG142	CABLE, COAX		
2	2	129-016658-02	CONNECTOR, RT-5000 INSTALL STRAIGHT (TNC)		
	1	RG142	ANTENNA, CABLE		
			REF. MANUFACTURE OR DESCRIPTION		
			DASH NUMBER		

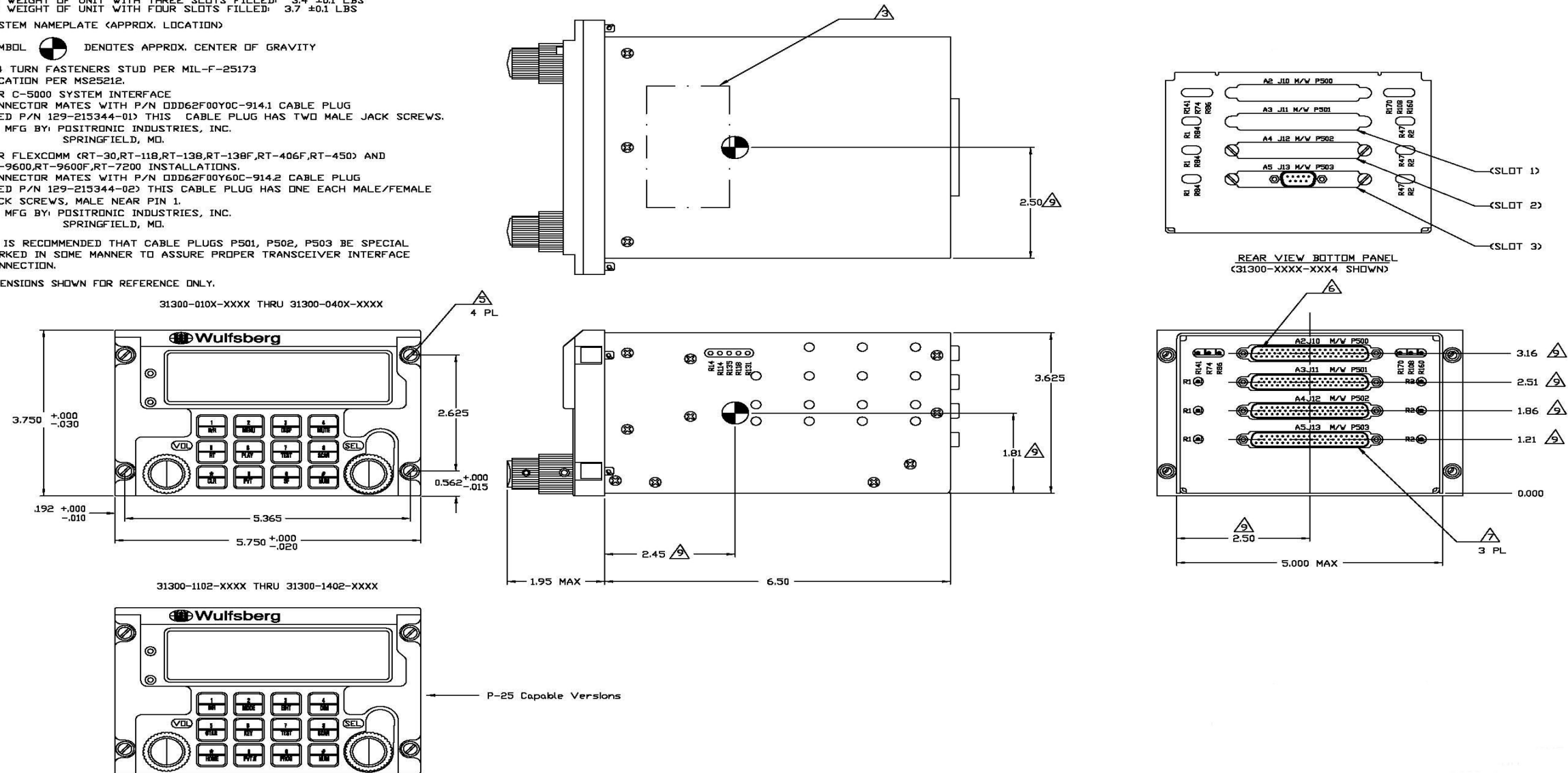
**Figure B-10. Cable, Coax, Antenna (RG142)  
 FLEXCOMM I / FLEXCOMM II (Sheet 1 of 1)  
 Dwg No. 153-041057, Rev C**



**C-5000 COMMUNICATION MANAGEMENT CONTROLLER  
 INSTALLATION MANUAL**

**NOTES:**

1. ENVIRONMENT:
  - 1.1 OPERATING TEMP: +60°C TO -30°C
2. PHYSICAL:
  - 2.1 WEIGHT OF UNIT WITH ONE SLOT FILLED: 3.0 ±0.1 LBS
  - 2.2 WEIGHT OF UNIT WITH TWO SLOTS FILLED: 3.2 ±0.1 LBS
  - 2.3 WEIGHT OF UNIT WITH THREE SLOTS FILLED: 3.4 ±0.1 LBS
  - 2.4 WEIGHT OF UNIT WITH FOUR SLOTS FILLED: 3.7 ±0.1 LBS
3. SYSTEM NAMEPLATE (APPROX. LOCATION)
4. SYMBOL  DENOTES APPROX. CENTER OF GRAVITY
5. 1/4 TURN FASTENERS STUD PER MIL-F-25173 LOCATION PER MS25212.
6. FOR C-5000 SYSTEM INTERFACE CONNECTOR MATES WITH P/N 00062F00Y0C-914.1 CABLE PLUG (WED P/N 129-215344-01) THIS CABLE PLUG HAS TWO MALE JACK SCREWS. MFG BY: POSITRONIC INDUSTRIES, INC. SPRINGFIELD, MD.
7. FOR FLEXCOMM (RT-30,RT-118,RT-138,RT-138F,RT-406F,RT-450) AND RT-9600,RT-9600F,RT-7200 INSTALLATIONS. CONNECTOR MATES WITH P/N 00062F00Y60C-914.2 CABLE PLUG (WED P/N 129-215344-02) THIS CABLE PLUG HAS ONE EACH MALE/FEMALE JACK SCREWS, MALE NEAR PIN 1. MFG BY: POSITRONIC INDUSTRIES, INC. SPRINGFIELD, MD.
8. IT IS RECOMMENDED THAT CABLE PLUGS P501, P502, P503 BE SPECIAL MARKED IN SOME MANNER TO ASSURE PROPER TRANSCEIVER INTERFACE CONNECTION.
9. DIMENSIONS SHOWN FOR REFERENCE ONLY.



**Figure 3-1. C-5000 Envelope Drawing (Sheet 1 of 1)**  
**Dwg No. 154-031300, Rev. K**



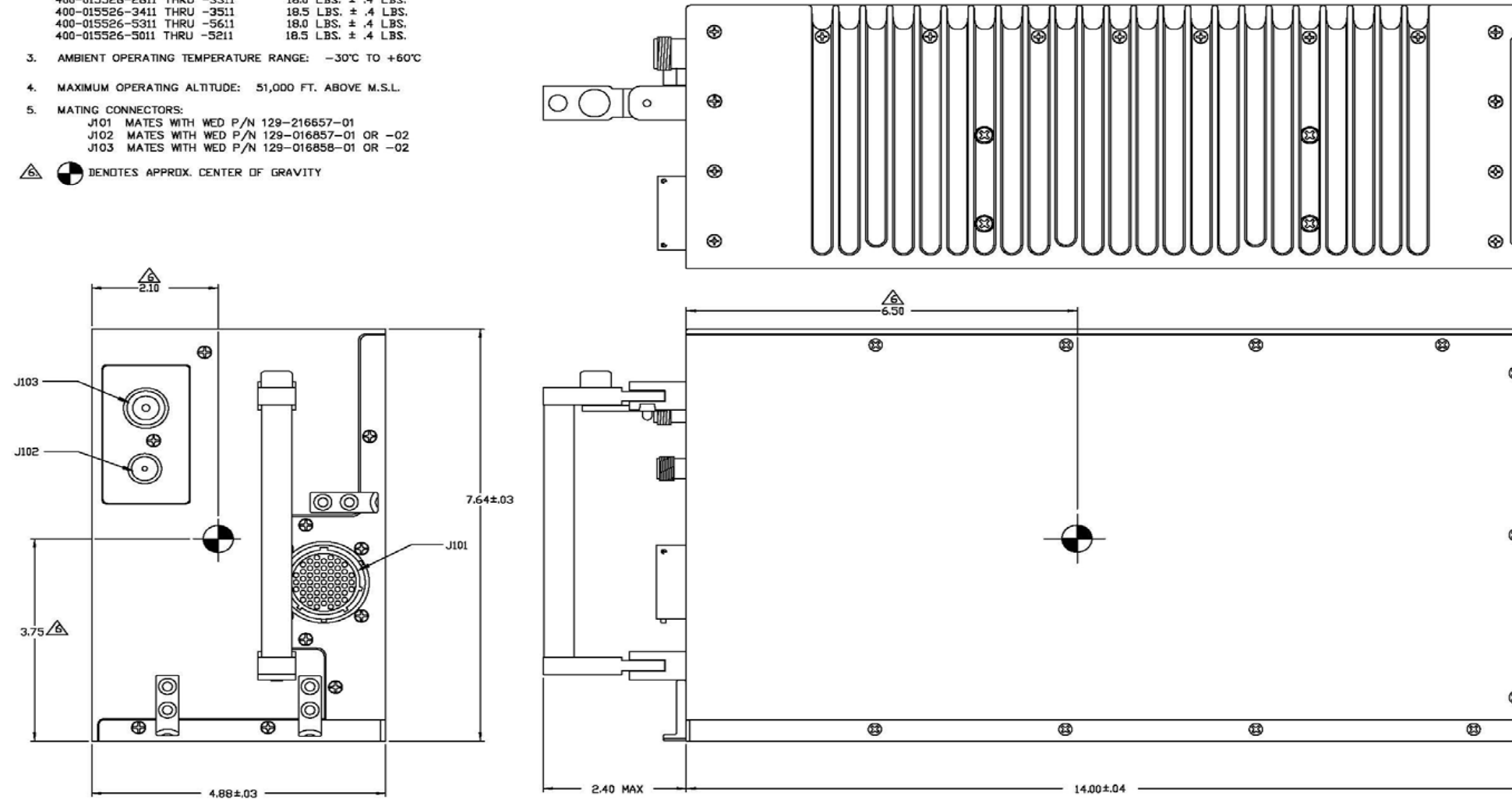
**C-5000 COMMUNICATION MANAGEMENT CONTROLLER  
 INSTALLATION MANUAL**

NOTES:

1. APPLICABLE TO: -0611 to -5611.
2. FLAVOR WEIGHT
 

400-015526-0611 THRU -0711	18.0 LBS. ± .4 LBS.
400-015526-0811 THRU -1311	18.0 LBS. ± .4 LBS.
400-015526-1411 THRU -2511	18.5 LBS. ± .4 LBS.
400-015526-2611 THRU -3311	18.0 LBS. ± .4 LBS.
400-015526-3411 THRU -3511	18.5 LBS. ± .4 LBS.
400-015526-5311 THRU -5611	18.0 LBS. ± .4 LBS.
400-015526-5011 THRU -5211	18.5 LBS. ± .4 LBS.
3. AMBIENT OPERATING TEMPERATURE RANGE: -30°C TO +60°C
4. MAXIMUM OPERATING ALTITUDE: 51,000 FT. ABOVE M.S.L.
5. MATING CONNECTORS:
  - J101 MATES WITH WED P/N 129-216657-01
  - J102 MATES WITH WED P/N 129-016857-01 OR -02
  - J103 MATES WITH WED P/N 129-016858-01 OR -02


DENOTES APPROX. CENTER OF GRAVITY

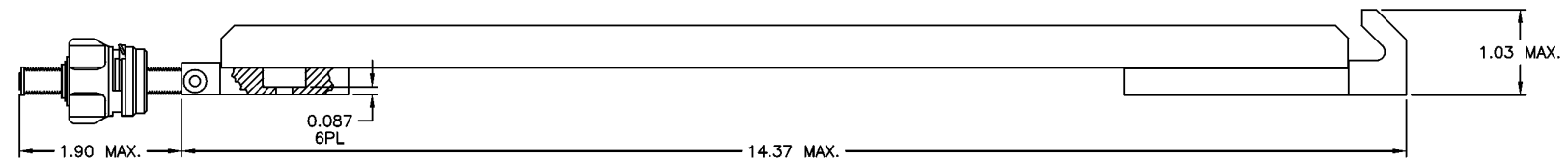
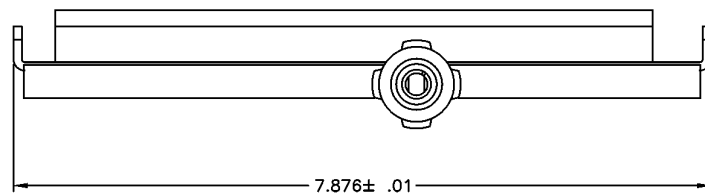
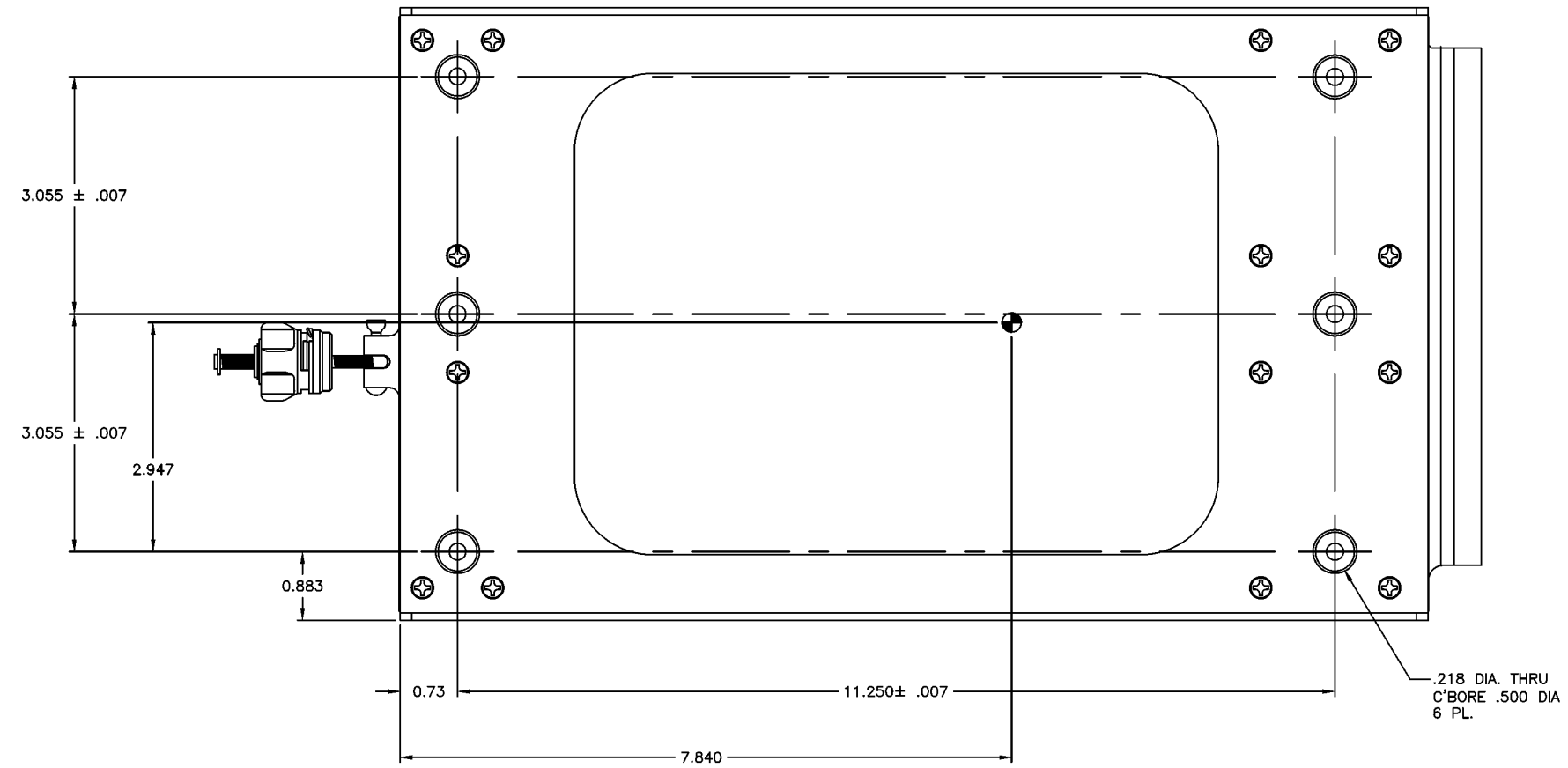


**Figure 3-2. RT-5000 Envelope Drawing (Sheet 1 of 1)  
 Dwg No.154-015526, Rev E**

**C-5000 COMMUNICATION MANAGEMENT CONTROLLER**  
**INSTALLATION MANUAL**

NOTES:

1. WEIGHT: 1.5 LBS.  $\pm$  .4 LBS.
2. DIMENSIONS SHOWN FOR REFERENCE ONLY.
3. APPROX. CENTER OF GRAVITY IS INDICATED BY THE  SYMBOL.




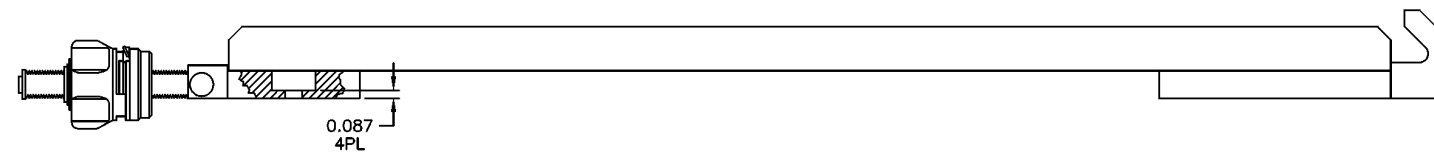
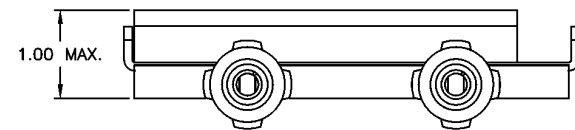
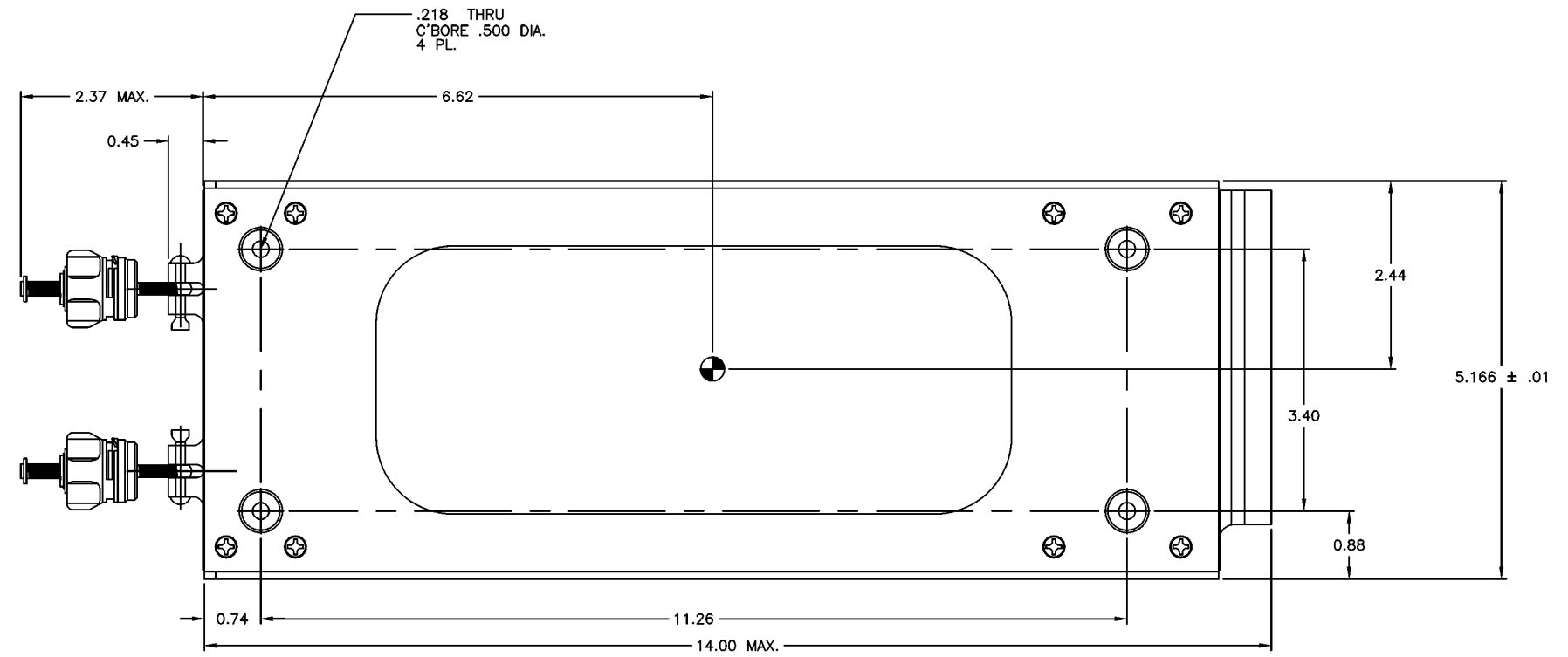
-01 SHOWN

**Figure 3-3. RT-5000 Tray Horizontal Mount (Sheet 1 of 1)**  
**Dwg No. 154-016835, Rev A**

**C-5000 COMMUNICATION MANAGEMENT CONTROLLER  
INSTALLATION MANUAL**

NOTES:

1. MAX. WEIGHT: 1.5 +/- 0.4LBS.
2. DIMENSIONS SHOWN FOR REFERENCE ONLY.
3. APPROX. CENTER OF GRAVITY IS INDICATED BY THE  SYMBOL.



-01 SHOWN

**Figure 3-4. RT-5000 Tray Vertical Mount (Sheet 1 of 1)  
Dwg No. 154-016605, Rev B**



**C-5000 COMMUNICATION MANAGEMENT CONTROLLER  
INSTALLATION MANUAL**

NOTES:

1. RECOMMENDED  
INSTALLATION HARDWARE: #8-32 STAINLESS STEEL  
MACHINE SCREWS.
2. TEMPERATURE RATING:  $-65^{\circ}$  F TO  $+300^{\circ}$  F
3. LOAD RANGE: 3 LB - 5 LB/ISOLATOR.
4. DIM. SHOWN FOR REF. ONLY.
5. APPROX FREE HEIGHT = 1.22, MAX EXTENDED HEIGHT = 1.56.

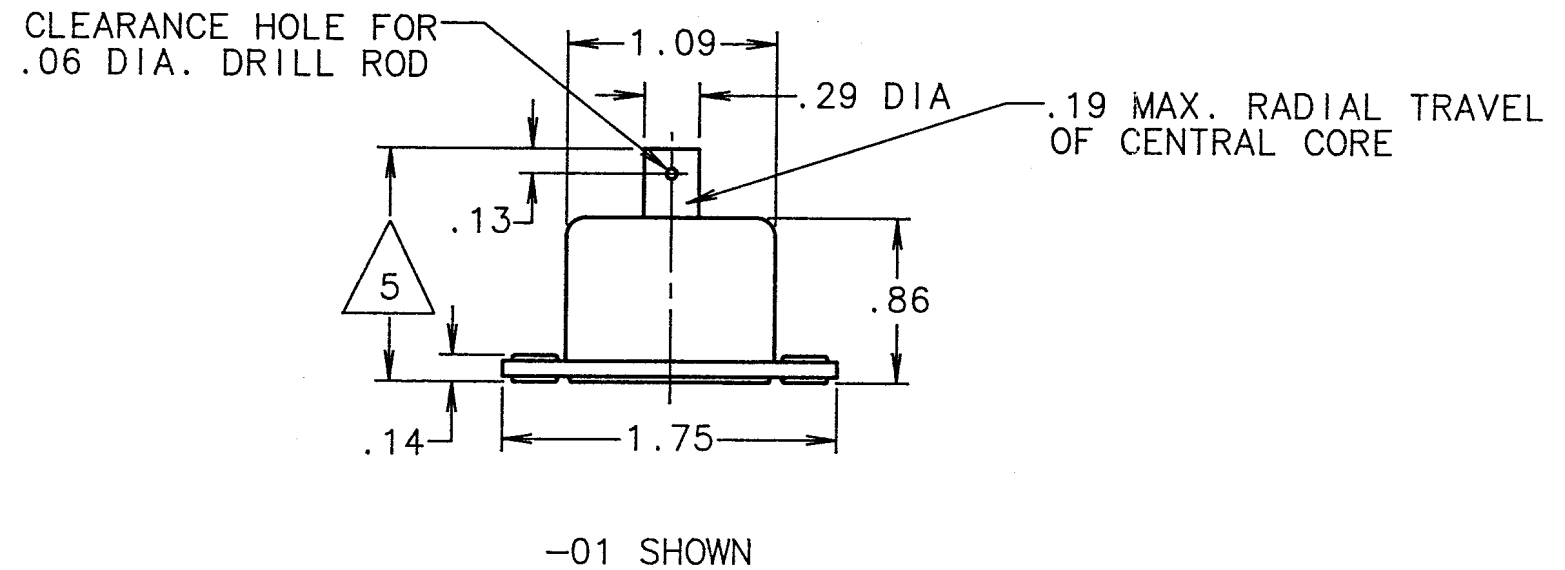
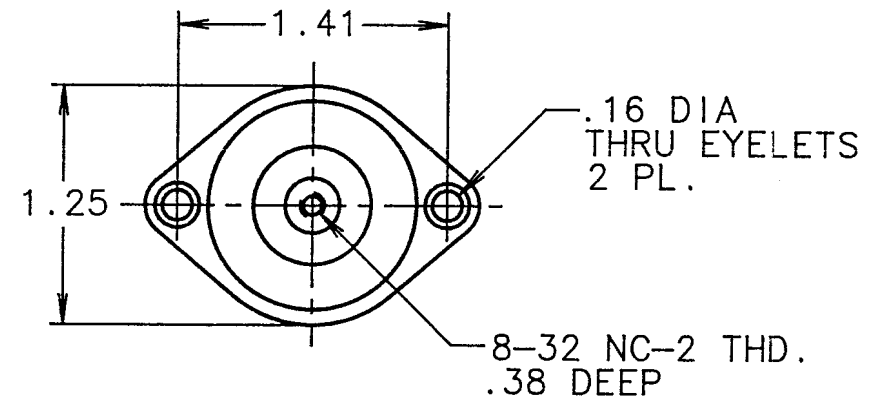
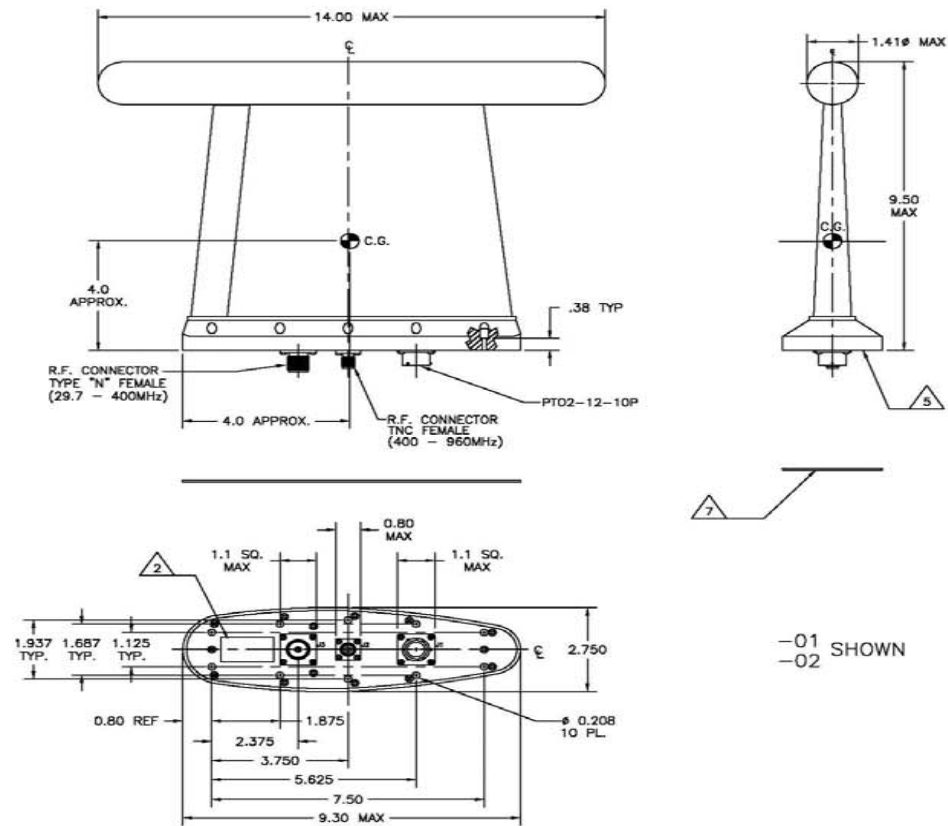


Figure 3-5. Vibration Isolator (Sheet 1 of 1)  
Dwg No. 246-017812, Rev A



**C-5000 COMMUNICATION MANAGEMENT CONTROLLER  
 INSTALLATION MANUAL**



**NOTES:**

1. SPECIFICATIONS:
  - 1.1 ELECTRICAL
    - 1.1.1 FREQUENCY RANGE: LOW SPLIT: 29.7 - 400 MHz  
HIGH SPLIT: 400 - 960 MHz
    - 1.1.2 IMPEDANCE: 50 OHMS
    - 1.1.3 VSWR: 2.5:1 MAX
    - 1.1.4 RF POWER: LOW SPLIT 15W DSBAM  
HIGH SPLIT: 25W CW
    - 1.1.5 POLARIZATION: VERTICAL
    - 1.1.6 RADIATION PATTERN: OMNIDIRECTIONAL IN AZIMUTH
    - 1.1.7 SPEC. GAIN: 30 MHz: -14 dBi  
88 MHz: -6 dBi  
108-174 MHz: 0.0 dBi AV  
220-960 MHz: 0.0 dBi AV
  - 1.2 MECHANICAL:
    - 1.2.1 WEIGHT: 2.7 LBS MAX
    - 1.2.2 FINISH: -01 (GLOSS WHITE EPOXY TO DEF STAN 80-161.)  
-02 (MATT BLACK EPOXY TO DEF STAN 80-161.)
  - 1.3 ENVIRONMENTAL, DESIGNED TO MEET:
    - 1.3.1 TEMPERATURE: -55° C TO +70° C
    - 1.3.2 VIBRATION: MIL-E-5400, CURVE IIIB
    - 1.3.3 ALTITUDE: 50,000 FT
    - 1.3.4 SHOCK: MIL-STD-810E; METH.516.4; PROC. I(20G,11ms)
2. LABEL MUST SHOW THE FOLLOWING INFORMATION:  
 ANTENNA AT-560  
 WULFSBERG ELECTRONICS DIVISION  
 P/N: 121-040130-01 (WHT) OR 121-040130-02 (BLK)  
 S.N. (SERIAL NO. TO BE SUPPLIED BY MFR.)  
 MFR. NAME AND PART NUMBER
3. INSTALLATION: IT IS RECOMMENDED THAT SQUARE CLEARANCE HOLES (WITH RADIUS CORNERS) FOR THE CONNECTORS BE USED IN THE AIRCRAFT SKIN TO AVOID WEAKENING THE METAL AROUND THE SCREW HOLES. THE INSTALLER MAY DESIRE TO USE THE FOLLOWING SIZES.  
 J3 (N CONN): 1.125  
 J2 (TNC CONN): 0.75  
 J1 (10 PIN CONN): 1.125  
 MOUNT ANTENNA WITH NO. 10 SCREWS.  
 WIRE PER SIGNAL DIAGRAM 152-140132

4. DIMENSIONS SHOWN FOR REFERENCE ONLY.

5. THIS AREA TO BE PAINT FREE.

6. APPROVED VENDOR: CHELTON ELECTROSTATICS;

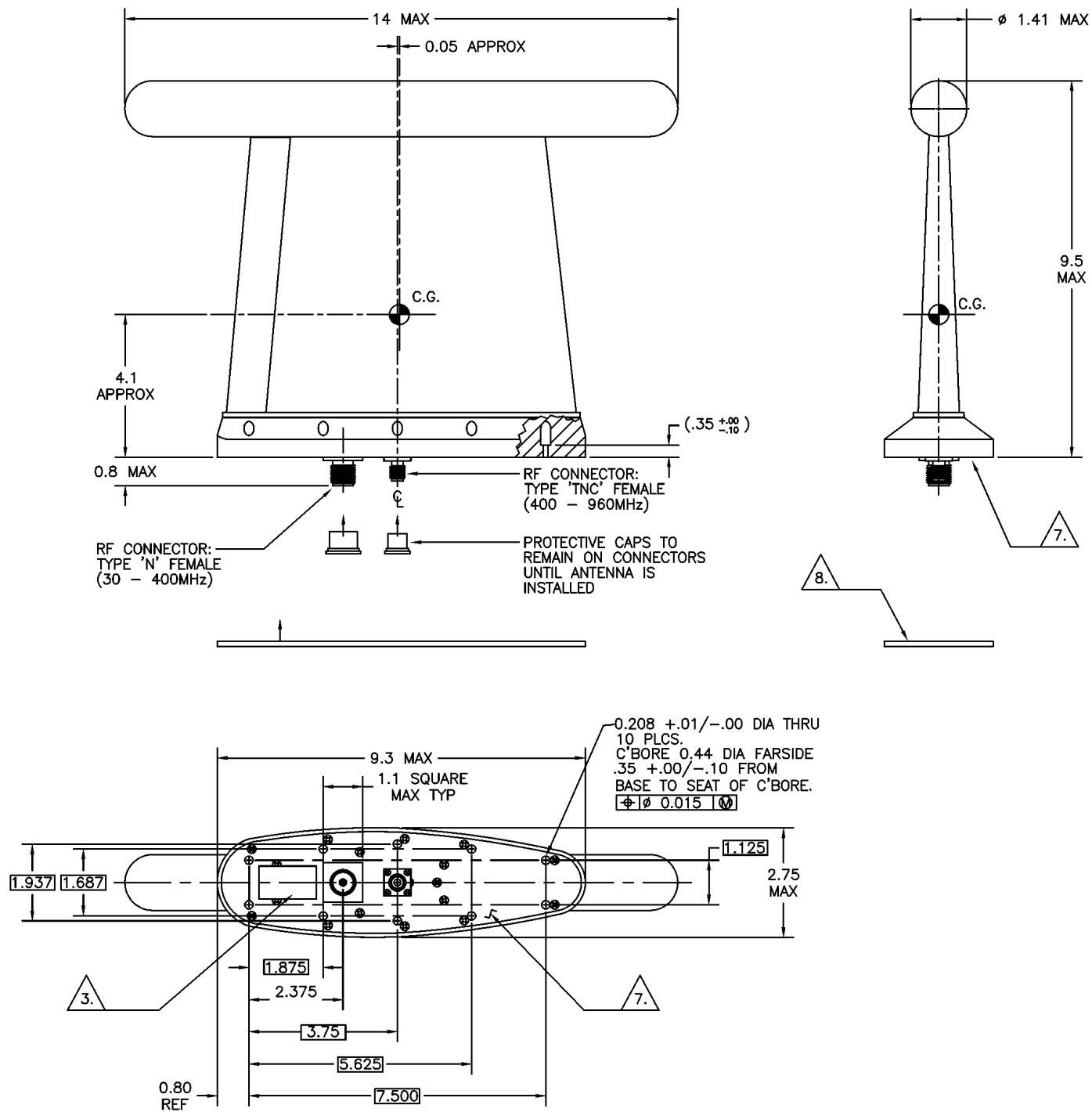
WED DASH NO.	COLOR	VENDOR P/N
-01	WHT	12-190-9
-02	BLK	12-190-9P4

7. SUPPLIED WITH A SILICONE RUBBER CONDUCTIVE GASKET. REPLACEMENT GASKET W.E.D. P/N: 146-040133-01.

8. SUPPLIER TO FURNISH TEST DATA SHEETS WITH EACH SHIPMENT.

**Figure 3-6. AT-560 Envelope Drawing (Sheet 1 of 1)  
 Dwg No. 121-040130, Rev F**

**C-5000 COMMUNICATION MANAGEMENT CONTROLLER  
 INSTALLATION MANUAL**



**Figure 3-7. AT-160 Envelope Drawing (Sheet 1 of 1)**  
**Dwg No. 121-040129, Rev E**

**NOTES:**

1. (WARNING, PERFORMANCE IS MARGINAL BELOW 50 MHz. FOR IMPROVED PERFORMANCE IN THE 30 - 50 MHz REGION. SEE THE AT-550 OR AT-5000 ANTENNA).
2. SPECIFICATIONS:
  - 2.1 ELECTRICAL
    - 2.1.1 FREQUENCY RANGE: LOW SPLIT: 29.7 - 400 MHz  
HIGH SPLIT: 400 - 960 MHz
    - 2.1.2 IMPEDANCE: 50 OHMS
    - 2.1.3 VSWR: 2.5:1 MAX
    - 2.1.4 RF POWER: LOW SLIT 25W DSBAM  
HIGH SPLIT: 25W CW
    - 2.1.5 POLARIZATION: VERTICAL
    - 2.1.6 RADIATION PATTERN: OMNIDIRECTIONAL IN AZIMUTH
    - 2.1.7 SPEC. GAIN: 30 MHz: -21 dBi  
60 MHz: -21 dBi  
88 MHz: -12 dBi  
108-174 MHz: -3 dBi AV  
225-960 MHz: 0.0 dBi AV
  - 2.2 MECHANICAL:
    - 2.2.1 WEIGHT: 2.7LBS (1.22kg) MAX
    - 2.2.2 FINISH: EPOXY PAINT GLOSS PER DEF. STAN. 80-161.  
WHITE (-01); BLACK (-02)
  - 2.3 ENVIRONMENTAL, DESIGNED TO MEET:
    - 2.3.1 TEMPERATURE: -55° C TO +70° C
    - 2.3.2 VIBRATION: MIL-E-5400, CURVE IIIB
    - 2.3.3 ALTITUDE: 50,000 FT
    - 2.3.4 SHOCK: MIL-STD-810E; METH.516.4;  
PROC. (20G,11ms)
    - 2.3.4 CSD: COMPASS SAFE DISTANCE IS LESS THAN 12 INCHES.

3. LABEL MUST SHOW THE FOLLOWING INFORMATION:  
 ANTENNA: AT-160  
 WULFSBERG ELECTRONICS DIVISION  
 P/N: 121-040129-01 (WHT) OR 121-040129-02 (BLK)  
 S.N.: (SERIAL NO. TO BE SUPPLIED BY MFR.)  
 MFR.: NAME AND MFR. PART NUMBER
4. INSTALLATION REQUIRES A 1.38 DIA. MIN. CLEARANCE HOLE IN THE AIRCRAFT SKIN FOR THE FEMALE "N" CONNECTOR MOUNTED ON THE ANTENNA. A .94 DIA. HOLE IS ALSO REQUIRED TO CLEAR THE FEMALE "TNC" CONNECTOR. THE INSTALLER MAY DESIRE TO USE LARGER HOLES TO CLEAR THE MALE CABLE CONNECTORS OR TO ALLOW FOR HOLE LOCATION TOLERANCES. MOUNT ANTENNA WITH NO. 10 SCREWS.
5. DIMENSIONS SHOWN FOR REFERENCE ONLY.
6. APPROVED VENDORS: CHELTON, INC.
 

WED DASH NO.	COLOR	VENDOR P/N
-01	WHT	12-334
-02	BLK	12-334 P4
7. ALUMINUM BASEPLATE, UNPAINTED, MUST MAKE GOOD ELECTRICAL CONTACT WITH AIRFRAME. ANTENNA SHOULD BE MOUNTED ON NEAR FLAT SURFACE USING R.F. GASKET.
8. SUPPLIED WITH RUBBER CONDUCTIVE RF GASKET:  
 WED P/N: 146-040129-01

**C-5000 COMMUNICATION MANAGEMENT CONTROLLER  
 INSTALLATION MANUAL**

NOTES:

1. SPECIFICATIONS:

- 1.1 ELECTRICAL
- 1.1.1 FREQUENCY RANGE: 29.7 - 88MHz  
108 - 174MHz  
225 - 400MHz  
400 - 960MHz
- 1.1.2 IMPEDANCE: 50 OHMS (NOMINAL)
- 1.1.3 VSWR:  $\leq 2.5:1$  ALL BANDS
- 1.1.4 RF POWER: LOW SPLIT: 15W DSBM  
HIGH SPLIT: 25W CW
- 1.1.5 POLARIZATION: ESSENTIALLY VERTICAL (WHEN MOUNTED VERTICALLY)
- 1.1.6 RADIATION PATTERNS: OMnidirectional IN AZIMUTH (NOMINAL)
- 1.1.7 SPEC. GAIN: 30MHz -15dBi  
88MHz -7.5dBi  
118-174MHz -3dBi ave  
225-960MHz 0 dBi ave
- 1.1.8 CONNECTORS: RF 29.7-400MHz N-TYPE FEMALE  
RF 400-960MHz TNC FEMALE  
DC PTO2-12-10P
- 1.2 MECHANICAL
- 1.2.1 WEIGHT: 3.5LBS MAX
- 1.2.2 FINISH: GLOSS WHITE EPOXY TO DEF. STAN. 80-161. OTHER FINISHES ARE AVAILABLE. COMPASS SAFE DISTANCE LESS THAN 12 INCHES.
- 1.2.3 C.S.D.: COMPASS SAFE DISTANCE LESS THAN 12 INCHES.
- 1.3 ENVIRONMENTAL: DESIGNED TO MEET
- 1.3.1 TEMPERATURE: -55° C TO +70° C
- 1.3.2 VIBRATION: MIL-E-5400, CURVE III
- 1.3.3 ALTITUDE: 53,000 FT
- 1.3.4 SHOCK: MIL-STD-810E; METH.516.4; PROC. I(20G, 11ms)

⚠ LABEL MUST SHOW THE FOLLOWING INFORMATION:  
 ANTENNA AT-5000  
 WULFSBERG ELECTRONICS DIVISION  
 P/N: 121-040045-01 (WH) OR 121-040045-02 (BLK)  
 S/N: (SERIAL NUMBER TO BE SUPPLIED BY MANUFACTURER),  
 MFR. NAME AND PART NUMBER

3. INSTALLATION:  
 IT IS RECOMMENDED THAT SQUARE CLEARANCE HOLES (WITH RADIUS CORNERS) FOR THE CONNECTORS, BE USED IN THE AIRCRAFT SKIN TO AVOID WEAKENING THE METAL AROUND THE SCREW HOLES. THE INSTALLER MAY DESIRE TO USE THE FOLLOWING SIZES FOR CONNECTOR CLEARANCES:

J1 (TNC CONN.): 0.75" SQUARE  
 J2 (N-TYPE CONN.): 1.125" SQUARE  
 J3 (10 PIN, PTO2-12-10P, DC CONN.): 1.125" SQUARE

MOUNT ANTENNA WITH 6 - NO. 10 SCREWS.  
 WIRE PER SIGNAL DIAGRAM 152-140131.

4. DIMENSIONS SHOWN FOR REFERENCE ONLY.

⚠ ALLUMINUM ALLOY BASEPLATE TO REMAIN UNPAINTED BY INSTALLER. BASEPLATE FINISHED BY MANUFACTURER WITH PROTECTIVE TREATMENT CHROMATE FILM CONVERSION TO DEF STAN 03-18. MUST MAKE GOOD ELECTRICAL CONTACT WITH AIRFRAME.

6. ANTENNA SHOULD BE INSTALLED ON FLAT SURFACE USING RF GASKET (WED P/N: 146-040046-01) SUPPLIED WITH ANTENNA.

7. NOTE REMOVED.

8. SUPPLIER TO FURNISH TEST DATA SHEETS WITH EACH SHIPMENT.

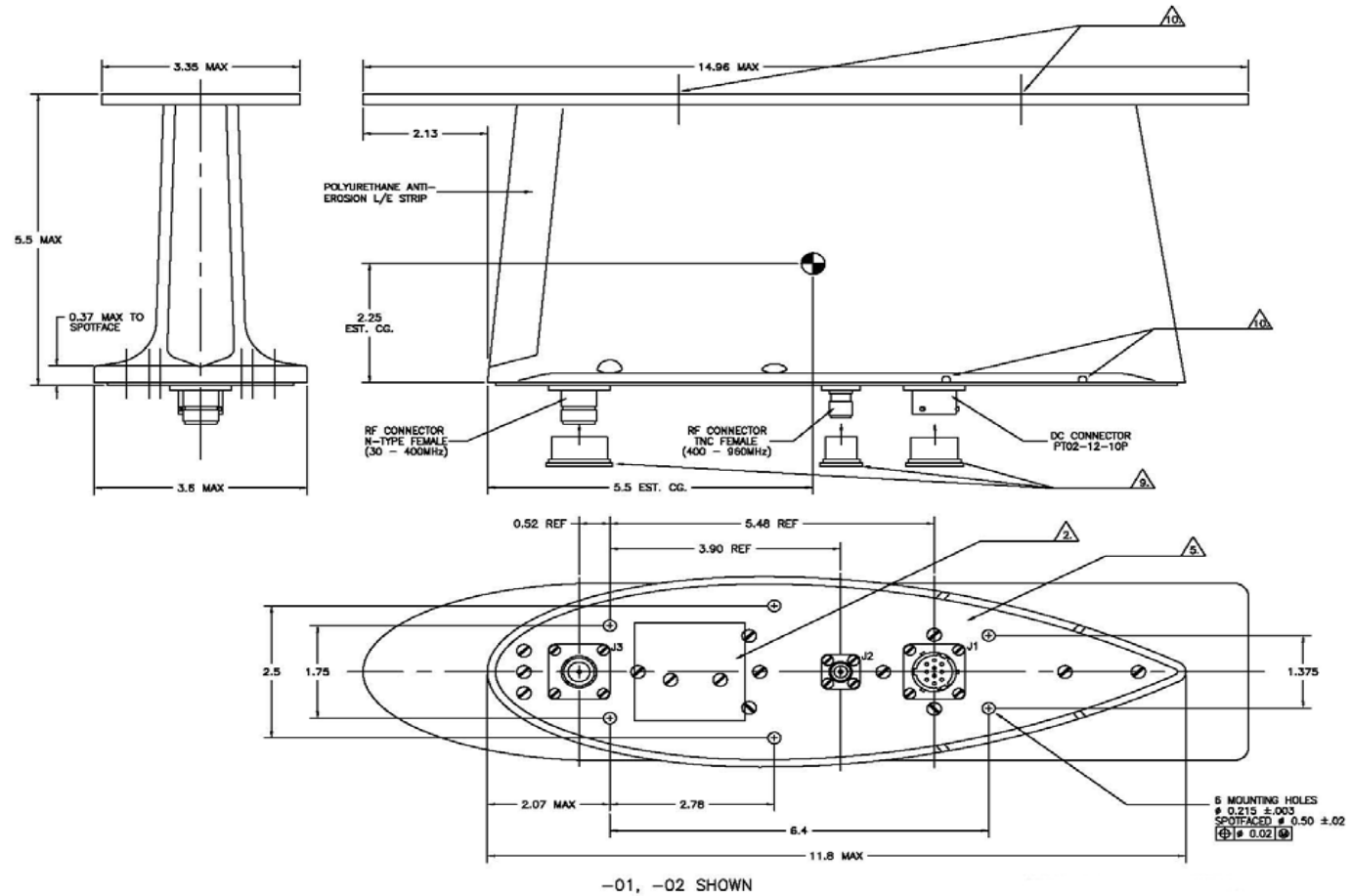
⚠ PLASTIC PROTECTIVE CONNECTOR CAPS TO REMAIN FITTED ON CONNECTORS UNTIL ANTENNA IS INSTALLED.

⚠ DRAINAGE:

- 10.1 WHEN ANTENNA IS INSTALLED ON THE TOP SURFACE OF AIRCRAFT, I.e.: UPRIGHT MOUNTING AS DEPICTED:
- 10.1.A DRAIN HOLES IN THE TOP PLATE OF ANTENNA SHOULD BE SEALED USING PLUGS B021-0137, SUPPLIED WITH KIT, WET ASSEMBLED WITH THIOKOL OR SIMILAR SEALING COMPOUND.
- 10.1.B DRAIN SLOTS IN ANTENNA FLANGE AT MOUNTING FACE MUST NOT BE OBSTRUCTED.
- 10.2 WHEN THE ANTENNA IS MOUNTED ON THE UNDERSIDE OF THE AIRCRAFT, I.e.: INVERTED MOUNTING:
- 10.2.A DRAIN HOLES IN THE TOP OF THE ANTENNA PLATE MUST NOT BE OBSTRUCTED.
- 10.2.B DRAIN SLOTS IN ANTENNA FLANGE AT MOUNTING FACE SHOULD BE SEALED BY APPLYING A SMALL FILLET OF THIOKOL (OR SIMILAR SEALING COMPOUND).

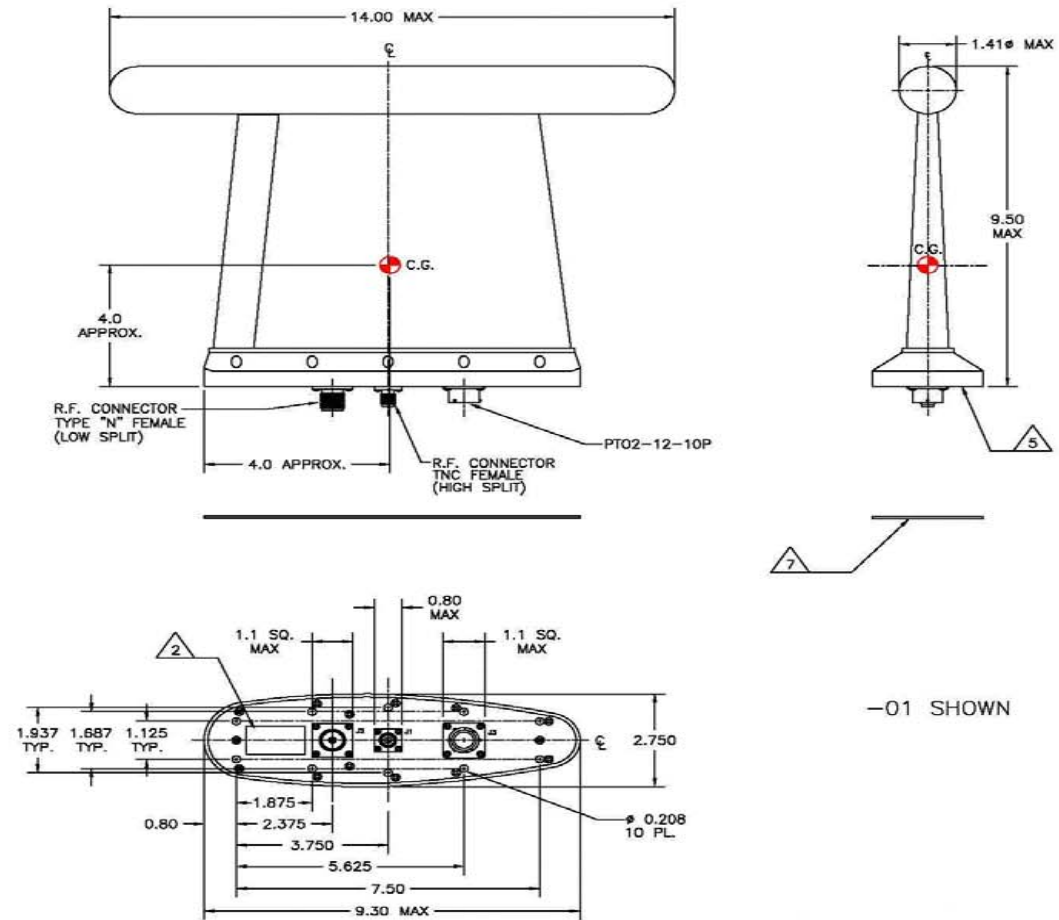
11. APPROVED VENDOR:  
 CHELTON(ELECTROSTATICS) LTD.

WED DASH NO.	VENDOR P/N	COLOR
-01	12-224	WHITE
-02	12-224 P4	BLACK



**Figure 3-8. AT-5000 Envelope Drawing (Sheet 1 of 1)**  
**Dwg No. 121-040045, Rev D**

**C-5000 COMMUNICATION MANAGEMENT CONTROLLER  
INSTALLATION MANUAL**



**NOTES:**

1. SPECIFICATIONS:
  - 1.1 ELECTRICAL
    - 1.1.1 FREQUENCY RANGE: LOW SPLIT: 29.7 - 400 MHz  
HIGH SPLIT: 400 - 960 MHz
    - 1.1.2 IMPEDANCE: 50 OHMS
    - 1.1.3 VSWR: 2.5:1 MAX
    - 1.1.4 RF POWER: LOW SPLIT 15W DSBAM  
HIGH SPLIT: 25W CW
    - 1.1.5 POLARIZATION: VERTICAL
    - 1.1.6 RADIATION PATTERN: OMNIDIRECTIONAL IN AZIMUTH
    - 1.1.7 SPEC. GAIN: 30 MHz: -14 dBi  
88 MHz: -6 dBi  
108-174 MHz: 0.0 dBi AV  
220-960 MHz: 0.0 dBi AV
  - 1.2 MECHANICAL:
    - 2.2.1 WEIGHT: 2.7 LBS MAX
    - 2.2.2 FINISH: WHITE PER FED-STD-595
  - 1.3 ENVIRONMENTAL, DESIGNED TO MEET:
    - 2.3.1 TEMPERATURE: -55 C° TO +70 C°
    - 2.3.2 VIBRATION: MIL-E-5400, CURVE III B
    - 2.3.3 ALTITUDE: 40,000 FT
    - 2.3.4 SHOCK: MIL-STD-810E; METH.516.4; PROC.1 (20G,11ms)
2. LABEL MUST SHOW THE FOLLOWING INFORMATION:
 

ANTENNA AT-550  
 WULFSBERG ELECTRONICS DIVISION  
 P/N: 121-017850-01  
 S.N. (SERIAL NO. TO BE SUPPLIED BY MFR.)  
 MFR. NAME AND PART NUMBER
3. INSTALLATION: IT IS RECOMMENDED THAT SQUARE CLEARANCE HOLES (WITH RADIUS CORNERS) FOR THE CONNECTORS BE USED IN THE AIRCRAFT SKIN TO AVOID WEAKENING THE METAL AROUND THE SCREW HOLES. THE INSTALLER MAY DESIRE TO USE THE FOLLOWING SIZES.
 

J2 (N CONN): 1.125  
 J1 (TNC CONN): 0.75  
 J3 (10 PIN CONN): 1.125  
 MOUNT ANTENNA WITH NO. 10 SCREWS.  
 WIRE PER SIGNAL DIAGRAM 152-117922.
4. DIMENSIONS SHOWN FOR REFERENCE ONLY.
  5. THIS AREA TO BE PAINT FREE.
  6. APPROVED VENDOR: DAYTON-GRANGER INC., P/N: 720058 (-01)
  7. SUPPLIED WITH A SILICONE RUBBER CONDUCTIVE GASKET. D.G. P/N: 540446, REPLACEMENT GASKET W.E.D. P/N: 146-017850-01.
  8. SUPPLIER TO FURNISH TEST DATA SHEETS WITH EACH SHIPMENT.
  9. IMPORTANT: CONNECT ANTENNA TO APPROPRIATE LOGIC CONVERTER. BE SURE BOTH ANTENNA AND LOGIC CONVERTER ARE MANUFACTURED BY THE SAME MANUFACTURER.

**Figure 3-9. AT-550 Envelope Drawing (Sheet 1 of 1)  
Dwg No. 121-017850, Rev H**