#### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

TABLE 1: GXA Ka KRFU, AIRCRAFT AIR COOLED, PART NUMBER

PART NUMBER	DESCRIPTION
90401202	GXA Ka KRFU

#### TABLE 3: J1 POWER CONNECTOR CONTACT ASSIGNMENTS /9

PIN NUMBER	SIGNAL NAME
A	115 VAC POWER
В	115 VAC RETURN
C	CHASSIS GROUND
D	SIGNAL GROUND

MATERIAL AND FINISH FOR J3 AND J4 WAVEGUIDE FLANGES:
AL ALLOY 6061-T6 IN ACCORDANCE WITH AMS-QQ-A-250/11.
NI PLATE PER QQ-N-290. CLASS 1. SEMI-BRIGHT. CORROSION PROTECTION GRADE F THRU G
(.0002 THICK MIN) OVER NI PLATE PER MIL-C-26074. CLASS 4. .0005 THICK MIN.

21 CAUTION LABEL: ESD SENSITIVE.

WAVESTREAM IDENTIFICATION LABEL.

20 W A VESTREAM IDENTIFICATIO

19 HONEYWELL MOD DOT LABEL.

ENVIRONMENTAL QUALIFICATION CHARACTERISTICS PER TABLE 5.

SPUD DESIGN PER ASS131B36.

16 WARNING LABEL: HAZARDOUS FOR DO NOT TURN ON WITHOUT PROPERTY. WARNING LABEL: HAZARDOUS RF ENERGY. DO NOT TURN ON WITHOUT PROPER OUTPUT TERMINATION. DO NOT LOOK INTO OR TOUCH OUTPUT OPENING.

15 CAUTION LABEL: HOT SURFACE. DO NOT TOUCH.

/14\ CAUTION LABEL: SHOCK HAZARD. HIGH VOLTAGE INSIDE.

MATERIAL AND FINISH FOR CHASSIS AND MOUNTING FEET: AL ALLOY 6061-T6 IN ACCORDANCE WITH AMS-QQ-A-250/11. EXTERNAL SURFACES: BLACK SANDEX POWDER COAT OVER CHEM-FILM PER MIL-DTL-5541 TYPE II. CLASS 3.

12. CONNECTORS FITTED WITH PROTECTIVE SHIPPING COVERS, REMOVE PRIOR TO TEST OR FINAL INSTALLATION. ELECTROSTATIC DISCHARGE SENSITIVE (ESD), HANDLE PER IPC-A-610.

INDICATES CENTER OF GRAVITY.

9 RRFU EXTERNAL CONNECTORS IDENTIFICATION PER TABLE 2.
J1 AND J2 CONNECTORS CONTACTS ASSIGNMENT PER TABLE 3 AND 4 ACCORDINGLY.

8. COOLING:
FORCED AIR BLOWN THROUGH COOLING SPUD PER ARINC 791.
STANDARD AIR FLOW: 77 KG/HR AT 40°C AT SEA LEVEL WITH PRESSURE DROP OF 250±50Pa.

HONEYWELL IDENTIFICATION LABEL INCLUDES:

DESCRIPTION
H/W PART NUMBER AND REVISION
S/W PART NUMBER AND VERSION
SERIAL NUMBER
DATE OF MANUFACTURE
WEIGHT
CAGE CODE
COUNTRY OF ORIGIN AND SITE TRANSPORT CANADA MFG CODE

6. POWER DISSIPATION AT 96-122VAC (320-800Hz): 132 W MAX @ MAXIMUM OUTPUT POWER (MOP). POWER CONSUMPTION AT 96-122VAC (320-800Hz): 150 W MAX @ MOP. CURRENT DRAW IN AMPERES: 2.7A RMS MAXIMUM. POWER FACTOR: GREATER THAN 0.98.

/5\ INDICATED SURFACE IS INTENDED FOR ELECTRICAL BONDING.

4. ASSOCIATED CAD DATA HAS BEEN MODELED TO NOMINAL DIMENSIONS.

3. WEIGHT: 6.6 kg (14.6 lb) MAX.

2. DIMENSIONS SHOWN ARE FOR INSTALLATION PURPOSES ONLY.

1. DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5M-1994.

NOTES: UNLESS OTHERWISE SPECIFIED:

TABLE 2: GXA Ka KRFU EXTERNAL CONNECTORS IDENTIFICATION

REF. DES	PART NUMBER	MATES WITH	FUNCTION	REMARKS	
J1	D 38999/20FC 4PN	D38999/26FC4SN (AMPHENOL)	POWER INPUT	4 PIN	
J2	D 38999/20FC 35PN	D 38999/26FC 35SN (AMPHENOL)	CONTROL INTERFACE	22 PIN	
13	M3922/54-003	M3922/59-005 (THRU HOLE FLANGE)	RF TX INTERFACE	WR-28 WAVEGUIDE WITH FLANGE UG599/U PER MIL-DTL-3922/54, EXCEPT AS DEFINED IN THIS DRAWING	/22
J4	M3922/54-001	M3922/59-003 (THRU HOLE FLANGE)	RF RX INTERFACE	WR-42 WAVEGUIDE WITH FLANGE UG595/U PER MIL-DTL-3922/54, EXCEPT AS DEFINED IN THIS DRAWING	/22
J5	TNC FEMALE PER MIL-C-87104/2	TNC MALE PER MIL-C-87104/2 (AMPHENOL)	IF TX INTERFACE	LABELED BLUE	
J6	TNC FEMALE PER MIL-C-87104/2	TNC MALE PER MIL-C-87104/2 (AMPHENOL)	IF RX INTERFACE	LABELED GREEN	

TABLE 4: J2 CONTROL CONNECTOR CONTACT ASSIGNMENTS /9

EN1: TX LOW (SPARE) TP18-1 (SPARE) KRFU FILTER SELECT HI

KREIL EILTER SELECT LO

RS-422: KRFU TO KANDU HI RS-422: KRFU TO KANDU LO

RS-422: KANDU TO KRFU LO TP17-1 (SPARE)

KREU TX MUTE HI

KREIL TX MILTE IN KRFU RESET HI KRFU RESET LO SPARE

TP19-1 (SPARE)

TP19-2 (SPARE) EN1: TX HIGH (SPARE

EN1: RX HIGH (SPARE

EN1: RX LOW (SPARE) TP18-2 (SPARE) RS-422: KANDU TO KRFU HI

SPARE

NUMBER

SIGNAL NAME

_	GROUND SURVIVAL LOW
_	OPERATING LOW TEMPER
	GROUND SURVIVAL HIGH
	OPERATING HIGH TEMPER
$\dashv$	IN-FLIGHT LOSS OF COO
	ALTITUDE
╗	DECOMPRESSION
	OVER PRESSURE
	TEMPERATURE VARIATIO
4	HUMIDITY
1	OPERATIONAL SHOCK
	CRASH SAFETY IMPULSE

TABLE 5: GXA Ka KRFU ENVIRONMENTAL QUALIFICATION CHARACTERISTICS

ENVIRONMENTAL CONDITIONS	LIMITS	RTCA/DO-160G SPECIFICATION
GROUND SURVIVAL LOW TEMPERATURE	-55°C	SECTION 4.5.1, CAT D2
OPERATING LOW TEMPERATURE	-55°C	SECTION 4.5.2, CAT D2
GROUND SURVIVAL HIGH TEMPERATURE	+85°C	SECTION 4.5.3, CAT D2
OPERATING HIGH TEMPERATURE	+70°C	SECTION 4.5.4, CAT D2
IN-FLIGHT LOSS OF COOLING	30 MIN., NO DAMAGE. OVER TEMPERATURE SHUTDOWN OF PA IS EXPECTED.	SECTION 4.5.5, CAT Z
ALTITUDE	51000 FT	SECTION 4.6.1, CAT D2
DECOMPRESSION	15000 FT TO 51000 FT	SECTION 4.6.2. CAT A2
OVER PRESSURE	170 KPA (-15000 FT)	SECTION 4.6.3, CAT A2
TEMPERATURE VARIATION	±10°C/MIN.	SECTION 5, CAT A
HUMIDITY	85% RH @38°C 95% RH @65°C	SECTION 6. CAT B
OPERATIONAL SHOCK	3 SHOCK OF 6 G. 11 MS. 6 DIRECTIONS 3 SHOCK OF 6 G. 20 MS. 6 DIRECTIONS	SECTION 7. CAT B & E
CRASH SAFETY IMPULSE	1 SHOCK OF 20 G, 11 MS, 6 DIRECTIONS 1 SHOCK OF 20 G, 20 MS, 6 DIRECTIONS	SECTION 7, CAT B & E
CRASH SAFETY SUSTAINED	18 G. 3 SECS. 6 DIRECTIONS	SECTION 7, CAT B
VIBRATION	ROBUST RANDOM CURVE E & E1	SECTION 8. CAT R
EXPLOSIVE ATMOSPHERE	AIRCRAFT ZONE III	SECTION 9, CAT E
WATER PROOFNESS	CONDENSING AND SPRAYED	SECTION 10, CAT Y & R
FLUIDS SUSCEPTIBILITY	DE-ICING FLUID	SECTION 11, CAT F
SAND AND DUST	DUST	SECTION 12, CAT D
FUNGUS RESISTANCE	BY ANALYSIS	SECTION 13, CAT F
SALT FOG		SECTION 14. CAT S
IC ING		SECTION 24, CAT A

25. UNIT SHALL BE INSTALLED USING ALL 4 MOUNTING HOLES AND MAY BE INSTALLED IN ANY ORIENTATION. RECOMMEND FASTENERS TO BE .190-32 UNJF-3A CORROSION RESISTENT STEEL CRES-A286.

24. UNIT EXPORT CONTROL CLASSIFICATION NUMBER IS 7A994. 23 FCC LABEL.

Figure 2-29. KRFU, Forced Air Cooled, Outline and Installation Drawing (Sheet 1 of 3)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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#### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

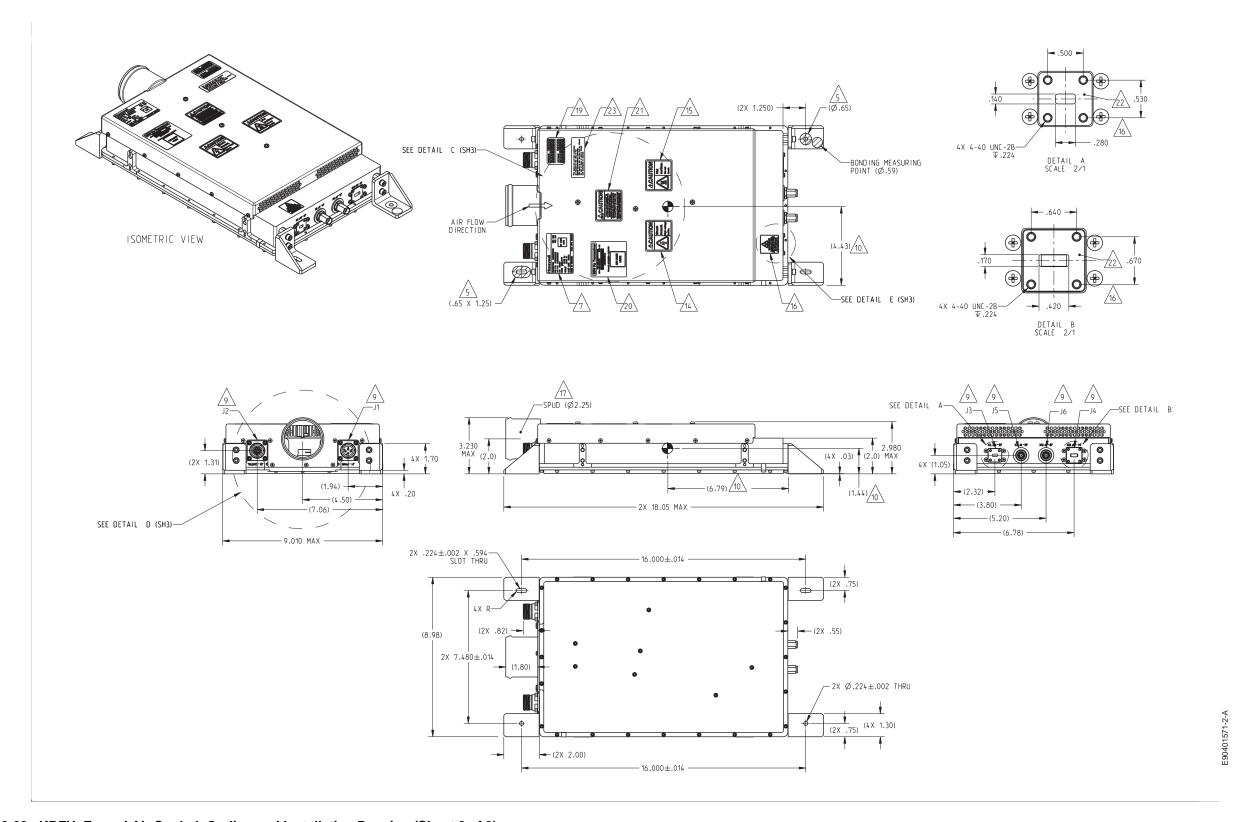


Figure 2-29. KRFU, Forced Air Cooled, Outline and Installation Drawing (Sheet 2 of 3)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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#### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

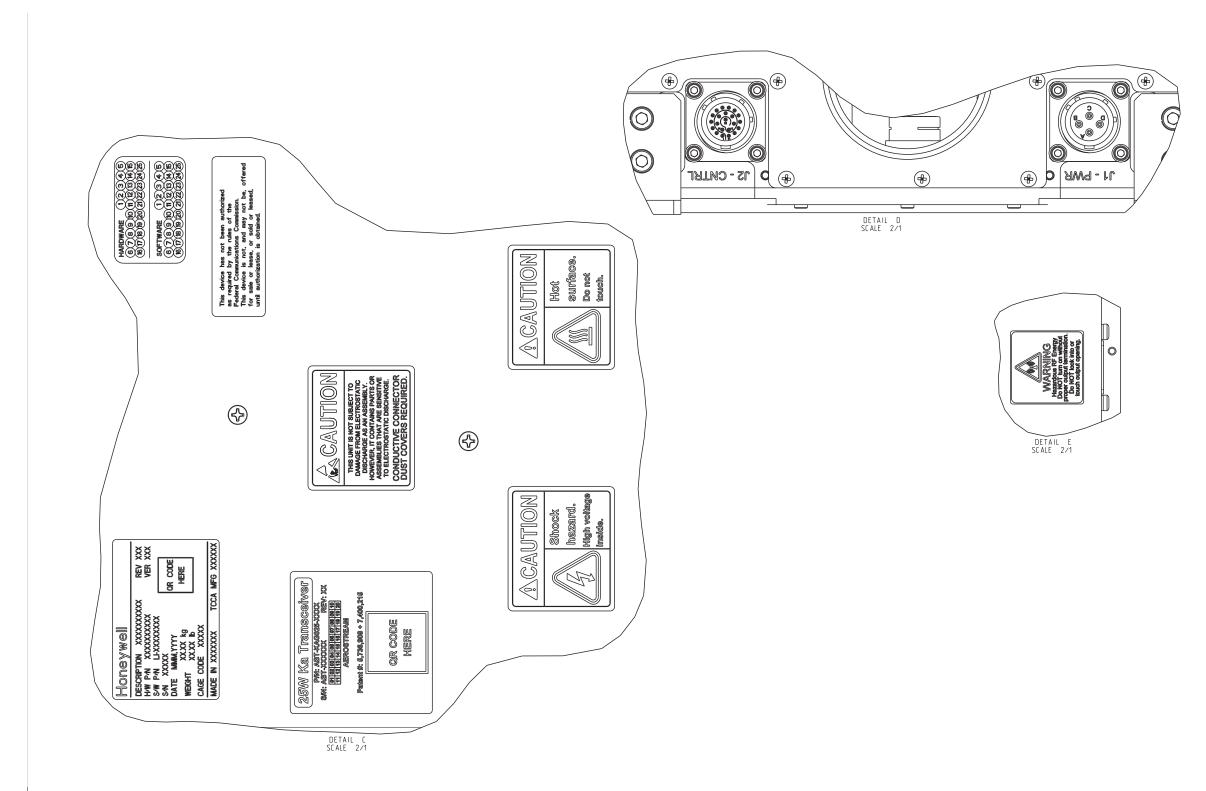


Figure 2-29. KRFU, Forced Air Cooled, Outline and Installation Drawing (Sheet 3 of 3)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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#### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

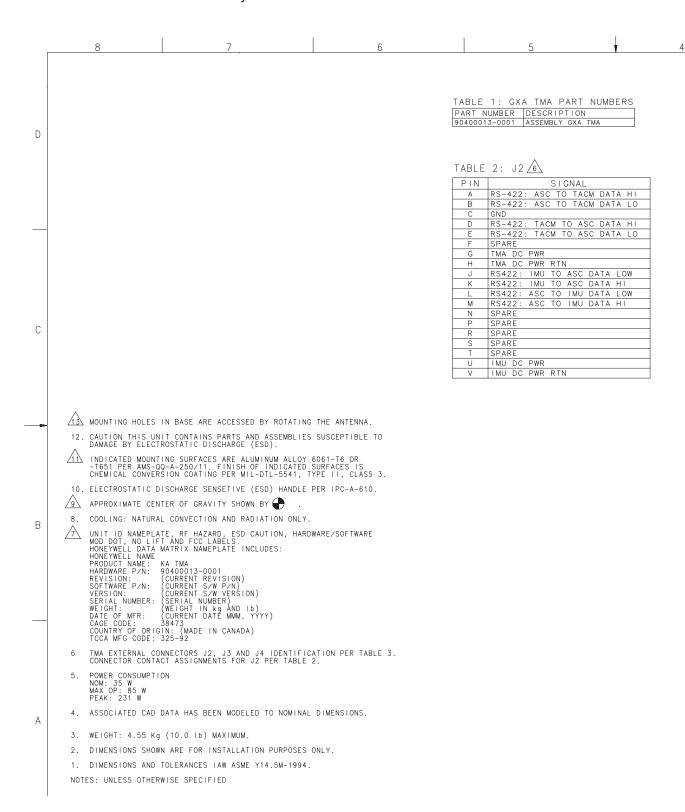


Figure 2-30. TMA Outline and Installation Drawing (Sheet 1 of 4)

Page 2-77 16 Sep 2015 TABLE 3 GXA TMA CONNECTOR IDENTIFICATION 🙆

REF DES	PART NUMBER	MATING CONNECTOR	REMARKS
J2	D38999/20FD19PN	D38999/26FD19SN	SEE TABLE 2 FOR PINOUTS
J3	WAVEGUIDE FLANGE PER UG599/U	WAVEGUIDE FLANGE PER UG599/U	
J 4	2.92mm COAX FEMALE	2.92mm COAX MALE	

SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

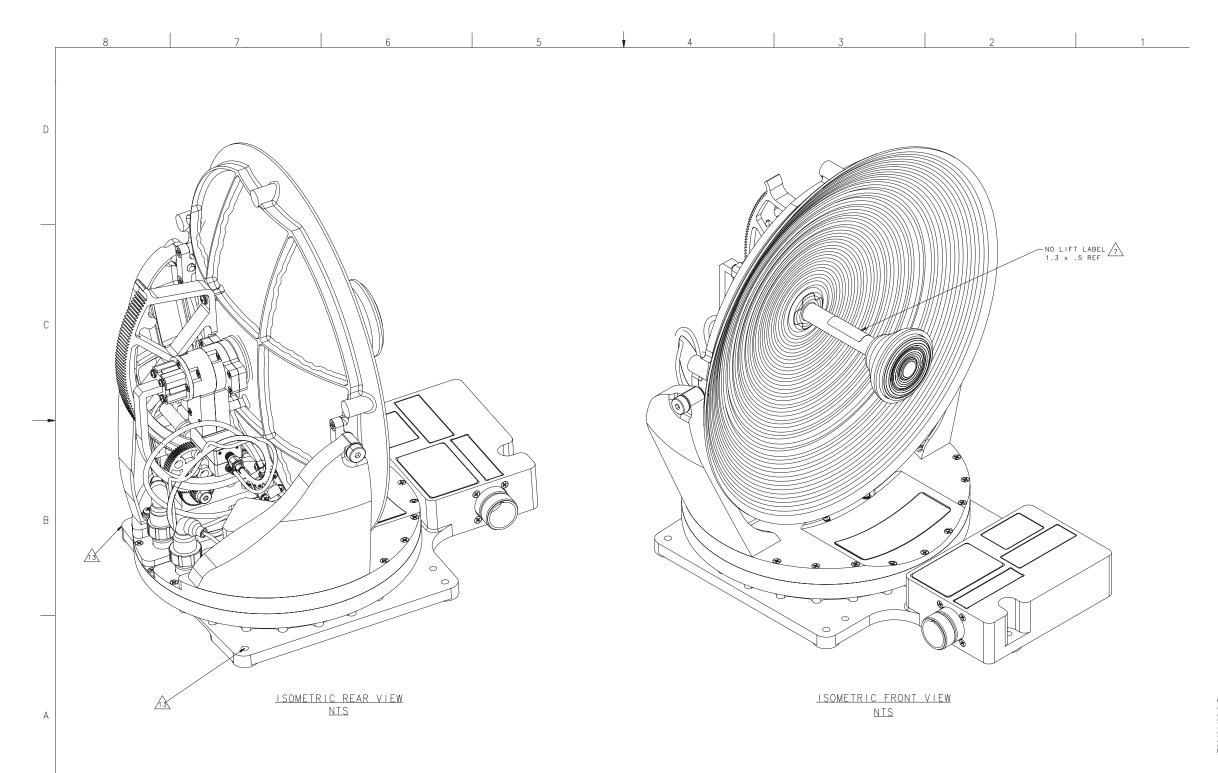


Figure 2-30. TMA Outline and Installation Drawing (Sheet 2 of 4)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

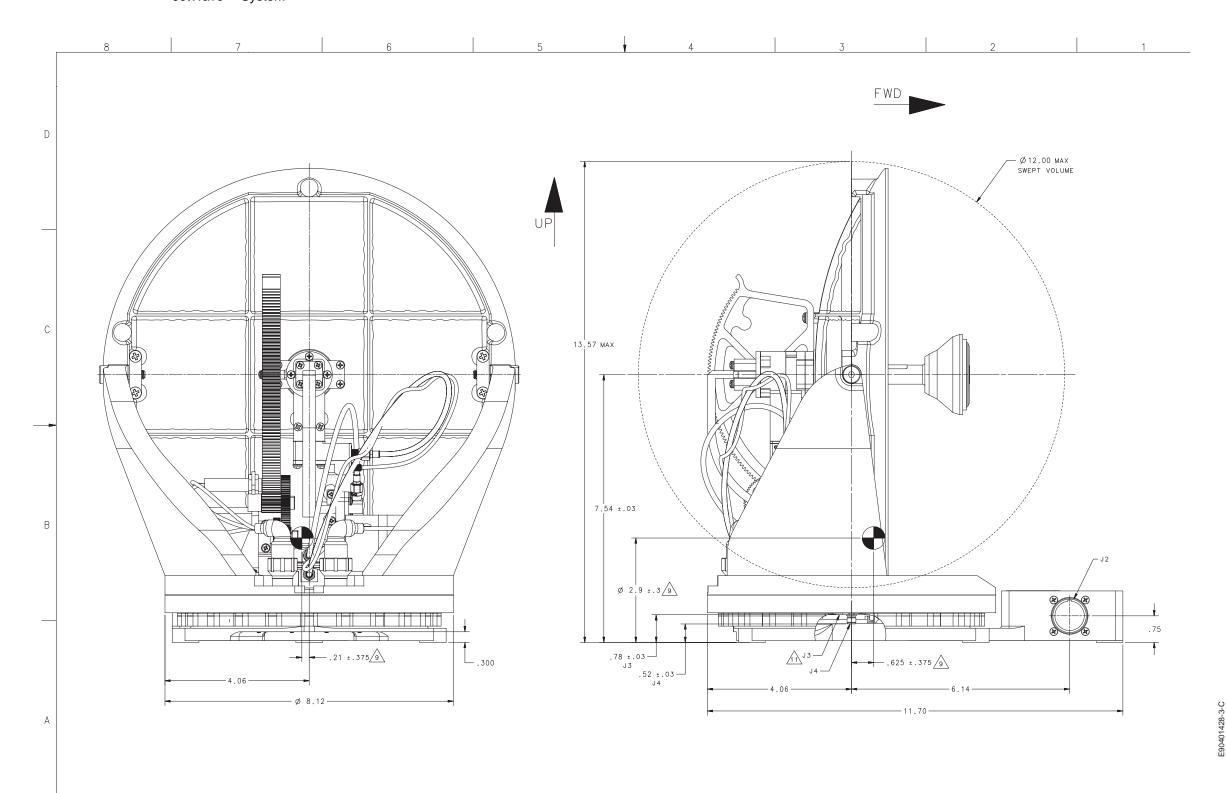


Figure 2-30. TMA Outline and Installation Drawing (Sheet 3 of 4)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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# SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

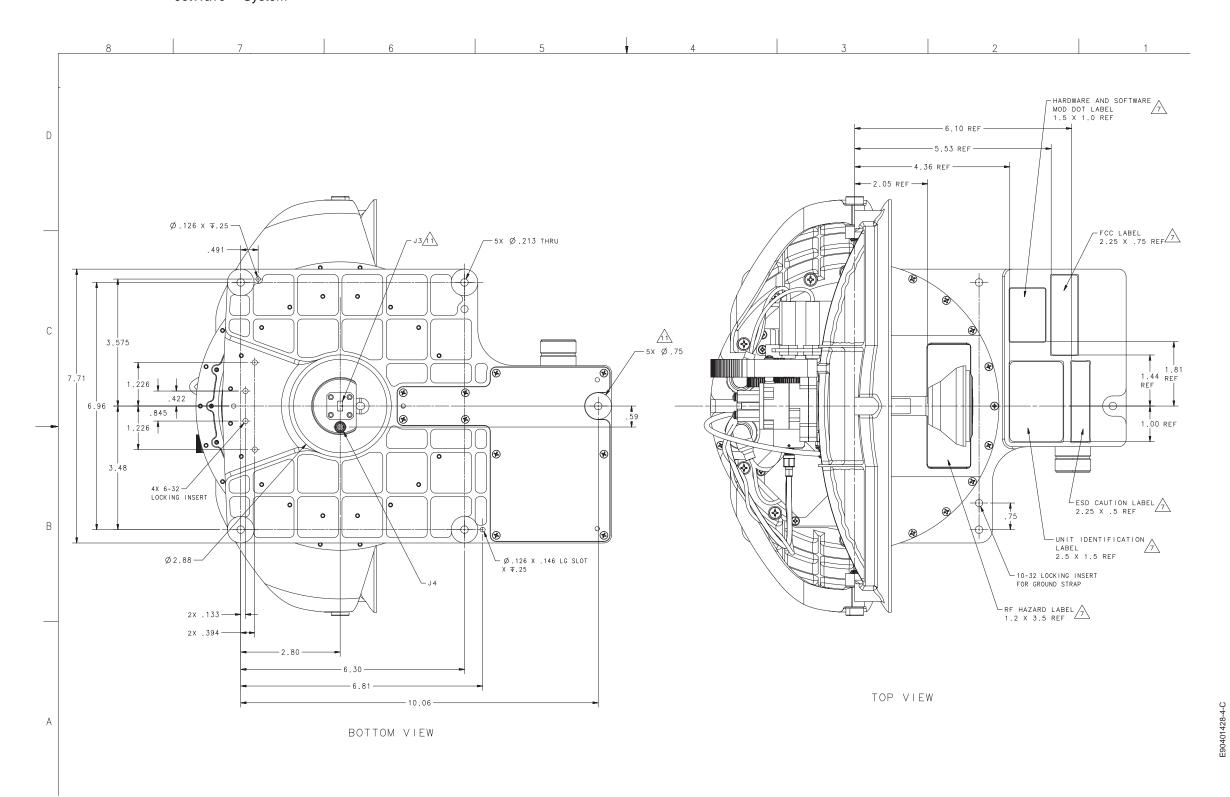


Figure 2-30. TMA Outline and Installation Drawing (Sheet 4 of 4)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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#### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

#### NOTES:

Unless otherwise specified

Dimensions and tolerances in accordance with ASME Y14.SM-1994.

Unless otherwise specified, dimensions are in inches.

Tolerances on:

X.XX ±0.03

X.XXX ±0.010

Z ±2°

- 2. Dimensions shown are for installation purposes only.
- 3. Weight:
  - 3.1 Fuselage mount antenna, PN 90000380-1: 83.0 pounds maximum.
  - 3.2 Lifting fixture, PN 90000528-001: 5.50 pounds maximum (Sheet 9).
- 4. Associated CAD data has been modeled to nominal dimensions.
- 5 Indicated surfaces are intended for electrical bonding measurement.

See Sheet 3, Zone C4 and Sheet 6, Zone A6.

Resistance from bonding measurement point indicated to base mounting ring point shall be 50.0 milliohms maximum.

6. Power consumption:

FMA requirements:

- . 6A peak, 135W steady-state (at 38 VDC)
- IMU requirements:
  - 25W peak below -20°C, 11W between -20°C and +10°C, 2.5W above +10°C.

(Note: approximate internal IMU temperatures are referenced)

Honeywell data matrix label includes:

Honeywell name

Product name: FMA

Hardware/software part numbers

Serial number

Weight

Date of manufacture

Hardware MOD strike array

Cage code

Country of origin

AR code encoding cage code, serial number, hardware part number and date of manufacture Inspection stamp

- 8. Cooling: Natural convection and radiation only. See Sheet 11 for cooling surfaces.
- 9 FMA external connectors identification per Table 2. P1, P2 and P3 connectors contact assignments per Table 3, 4, and 5 accordingly. Cables consist of multiple stranded wires in a shielded and insulated jacket. Use cushioned cable clamps to secure cable to aircraft when routing to the mating connector. Ensure cable routing does not obstruct antenna azimuth or elevation rotation defined by swept volume on Sheet 7.
- 10 indicates center of gravity (see Sheet 3).
- 11. Electrostatic discharge sensitive (ESD). Handle per IPC-A-610.
- 12. Connectors fitted with protective shipping covers. Remove prior to test or final installation.
- Indicated mounting surfaces are aluminum alloy 6061-T651 per SAE-AMS4027. Finish of indicated surfaces is chemical conversion coating per MIL-DTL-5541, Type I or II, Class 3, with two coats of primer per MIL-PRF-85582, Type I, Class N.
- 14 CAUTION: CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).
- 15. Environmental qualification characteristics per Table 6.

Figure 2-31. FMA Outline and Installation Drawing (Sheet 1 of 12)

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- Mounting holes in base are accessed from the top between the antenna and turntable by rotating the assembly in azimuth. Force required to rotate the unit shall be less than 2.5 lb/ft. Mounting hole locations will accommodate 0.52 inch maximum diameter flat washers and socket head cap screws.
- 17. Mating connectors P1, P2 and P3 must be grounded to aircraft adapter plate. Resistance from connector shell shall be 5 milliohms maximum.
- Swept volume includes manufacturing tolerances, thermal deflection and dynamic deflection during operation.
- 19. Export Control Classification Number: 7E994.
- 20 Indicated surfaces are intended for electrical bonding measurement. See Sheet 6, Zone A6.
  Resistance from FMA base mounting ring bonding measurement point to adapter plate grounding point must be no greater than 2.5 milliohms. After bonding measurement coat with primer per MIL-PRF-85582, Type I, Class N.
- 21. Testing:
  - 21.1 Deleted.
  - 21.2 Acceptance test per 90000380QTP as defined in Section 1.3 and performed in the following sections: 5.1, 5.2.1, 5.2.2, 5.2.3, 5.2.5 and 5.2.7.

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

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the second of th	ABLE 1 PART NUMBER	
PART NUMBER	DESCRIPTION	
90000380-1	GXA FMA ASSEMBLY	

	FMA EXTERNA	TABLE 2 AL CONNECTORS IDE	NTIFICATION	
REF. DES.	PART NUMBER	MATES WITH	FUNCTION	REMARKS
Pt	PART NUMBER D38999/26FC4PN AMPHENOL CAGE CODE: 02660	PART NUMBER D38999/20FC4SN AMPHENOL CAGE CODE: 02660	POWER INPUT	4 PIN
P2	PART NUMBER D38999/26FB35PN AMPHENOL CAGE CODE: 02660	PART NUMBER D38999/20FB35SN AMPHENOL CAGE CODE: 02660	SIGNAL INTERFACE	13 PIN
P3	PART NUMBER D38999/26FB35PA AMPHENOL CAGE CODE: 02660	PART NUMBER D38999/20FB35SA AMPHENOL CAGE CODE: 02660	TX MUTE/IMU	13 PIN
J4	2.92 MM FEMALE PART NUMBER SF1115-6045 SV MICROWAVE, INC. CAGE CODE: 95077	2.92 MM MALE SEE DETAIL F SHEET 8 MATING COAX DIMENSIONS	RF RX INTERFACE	N/A
J5	90000804-001	SEE DETAIL E SHEET 8 MATING WAVEGUIDE DIMENSIONS	RF TX INTERFACE (WR34)	N/A

P1 POWER C	TABLE 3 ONNECTOR CONTACT ASSIGNMENT	
PIN SIGNAL		
Α	38VDC_POWER	
В	38VDC_POWER_RETURN	
C	FMA CHASSIS GROUND	
D	SPARE	

	TABLE 4			
P2 S	IGNAL CONNECTOR CONTACT ASSIGNMENT			
PIN	SIGNAL			
1	MAINTENANCE_ETHERNET_TX+			
2	MAINTENANCE_ETHERNET_TX-			
3	MAINTENANCE_ETHERNET_RX+			
4	MAINTENANCE_ETHERNET_RX-			
5	CMD_STATUS_422_RX_HI			
6	CMD_STATUS_422_RX_LO			
7	CMD_STATUS_422_TX_HI			
8	CMD_STATUS_422_TX_LO			
9	CMD STATUS 422 REFERENCE GROUND			
10	SPARE			
11	SPARE			
12	SPARE			
13	SPARE			

	TABLE 5 P3 TX MUTE/IMU CONNECTOR CONTACT ASSIGNMENT		
PIN	SIGNAL		
1	IMU_TO_KANDU_422_DATA_HI		
2	IMU_TO_KANDU_422_DATA_LO		
3	KANDU_TO_IMU_422_DATA_HI		
4	KANDU_TO_IMU_422_DATA_LO		
5	IMU 24 V POWER		
6	IMU 24 V POWER RETURN		
7	TX TAIL_SECTOR_MUTE_SWITCH		
8	TX TAIL_SECTOR_MUTE_SWITCH_RETURN		
9	SPARE		
10	SPARE		
11	SPARE		
12	SPARE		
13	SPARE		

EMA ENVIRO	TABLE 6 NMENTAL QUALIFICATION CHARACTERIST	ICS
ENVIRONMENTAL CONDITIONS	LIMITS	RTCA DO-160G SPECIFICATION
GROUND SURVIVAL LOW TEMPERATURE	-55°C	SECTION 4.5.1, CAT F2
OPERATING LOW TEMPERATURE	-55°C	SECTION 4.5.2, CAT F2
GROUND SURVIVAL HIGH TEMPERATURE	+90°C	SECTION 4.5.3, CAT F2
OPERATING HIGH TEMPERATURE	+70°C	SECTION 4.5.4, CAT F2
IN-FLIGHT LOSS OF COOLING	NOT APPLICABLE	NOT APPLICABLE
ALTITUDE	55,000 FT	SECTION 4.6.1, CAT F2
DECOMPRESSION	NOT APPLICABLE	NOT APPLICABLE
OVER PRESSURE	NOT APPLICABLE	NOT APPLICABLE
TEMPERATURE VARIATION	10°C/MIN	SECTION 5, CAT A
HUMIDITY	85% RH AT 38°C 95% RH AT 65°C	SECTION 6, CAT B
OPERATIONAL SHOCK	3 SHOCKS OF 6G/11MS IN 6 DIRECTIONS 3 SHOCKS OF 6G/20MS IN 6 DIRECTIONS	SECTION 7, CAT B AND E
CRASH SAFETY IMPULSE	1 SHOCK OF 20G/11MS IN 6 DIRECTIONS 1 SHOCK OF 20G/20MS IN 6 DIRECTIONS	SECTION 7, CAT B AND E
CRASH SAFETY SUSTAINED	10G UP 8G DOWN 18G FORWARD 4G AFT 6G SIDE	SECTION 7, CAT B AND E
VIBRATION	RANDOM CURVE C AND C1	SECTION 8, CAT S AND R
EXPLOSIVE ATMOSPHERE	AIRCRAFT ZONE 111 (HEPTANE INSTEAD OF HEXANE)	SECTION 9, CAT E
WATER PROOFNESS	CONDENSING AND DRIP	SECTION 10, CAT Y AND W
FLUIDS SUSCEPTIBILITY	DE-ICING FLUID (SPRAY TEST ONLY)	SECTION 11, CAT F
SAND AND DUST	DUST ONLY	SECTION 12, CAT D
FUNGUS RESISTANCE	BY ANALYSIS	SECTION 13, CAT F
SALT FOG	CATS	SECTION 14, CAT S
ICING	CAT B	SECTION 24, CAT B

Figure 2-31. FMA Outline and Installation Drawing (Sheet 2 of 12)

SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

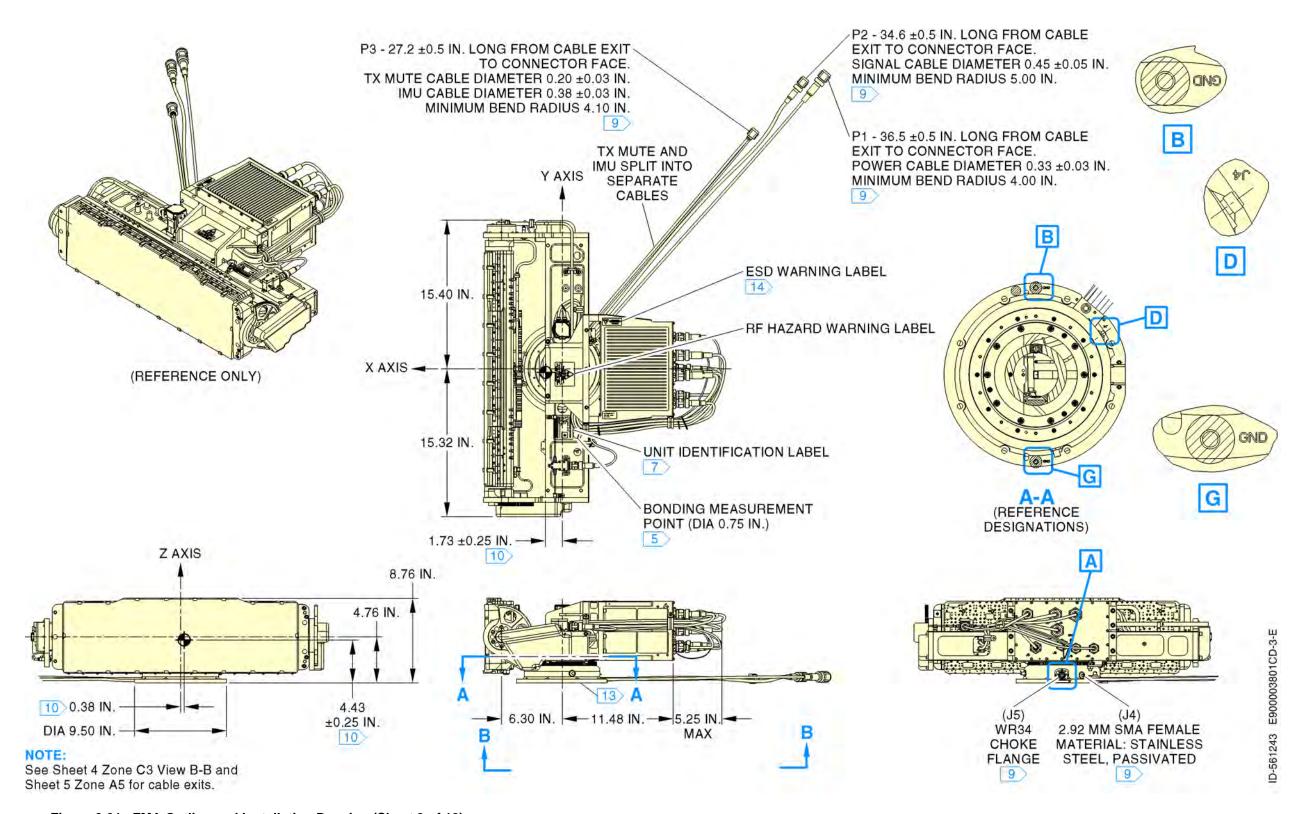


Figure 2-31. FMA Outline and Installation Drawing (Sheet 3 of 12)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

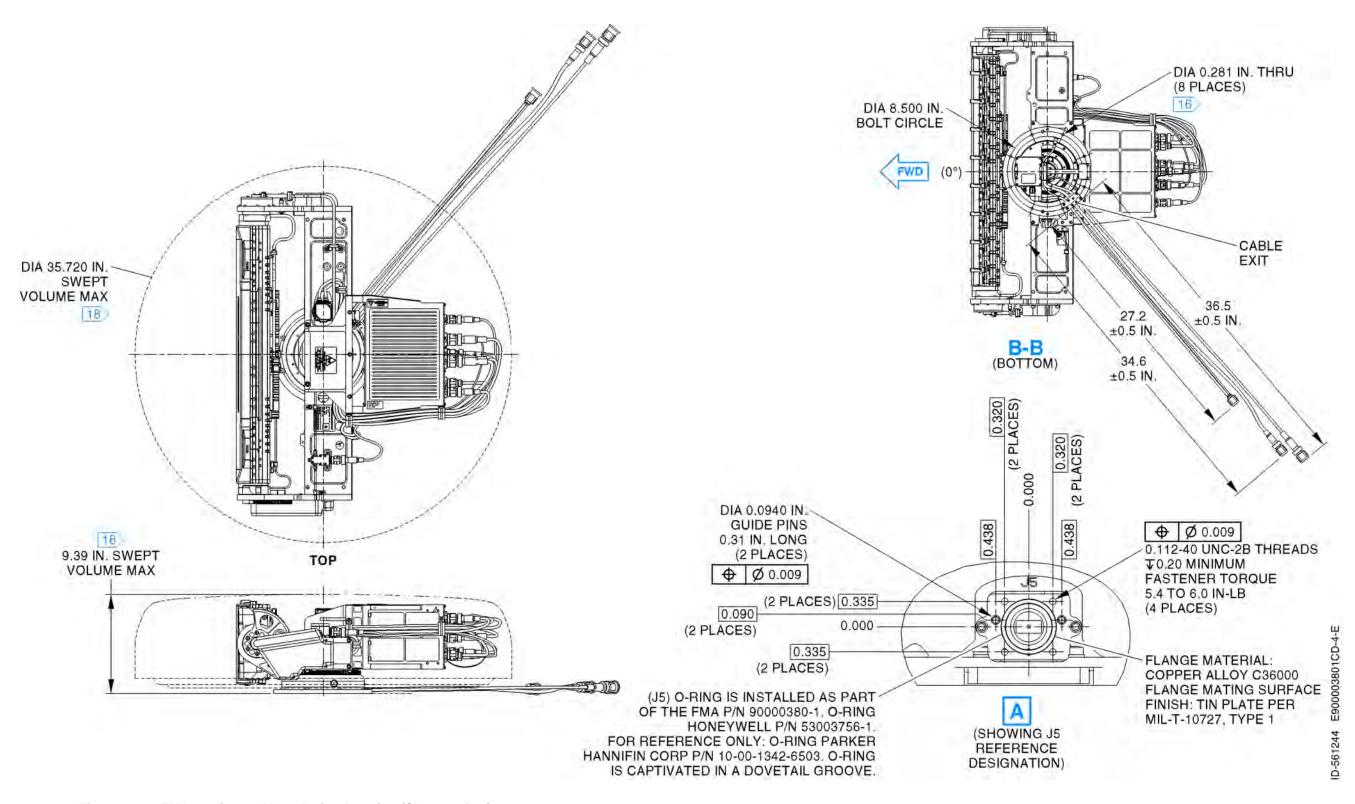


Figure 2-31. FMA Outline and Installation Drawing (Sheet 4 of 12)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

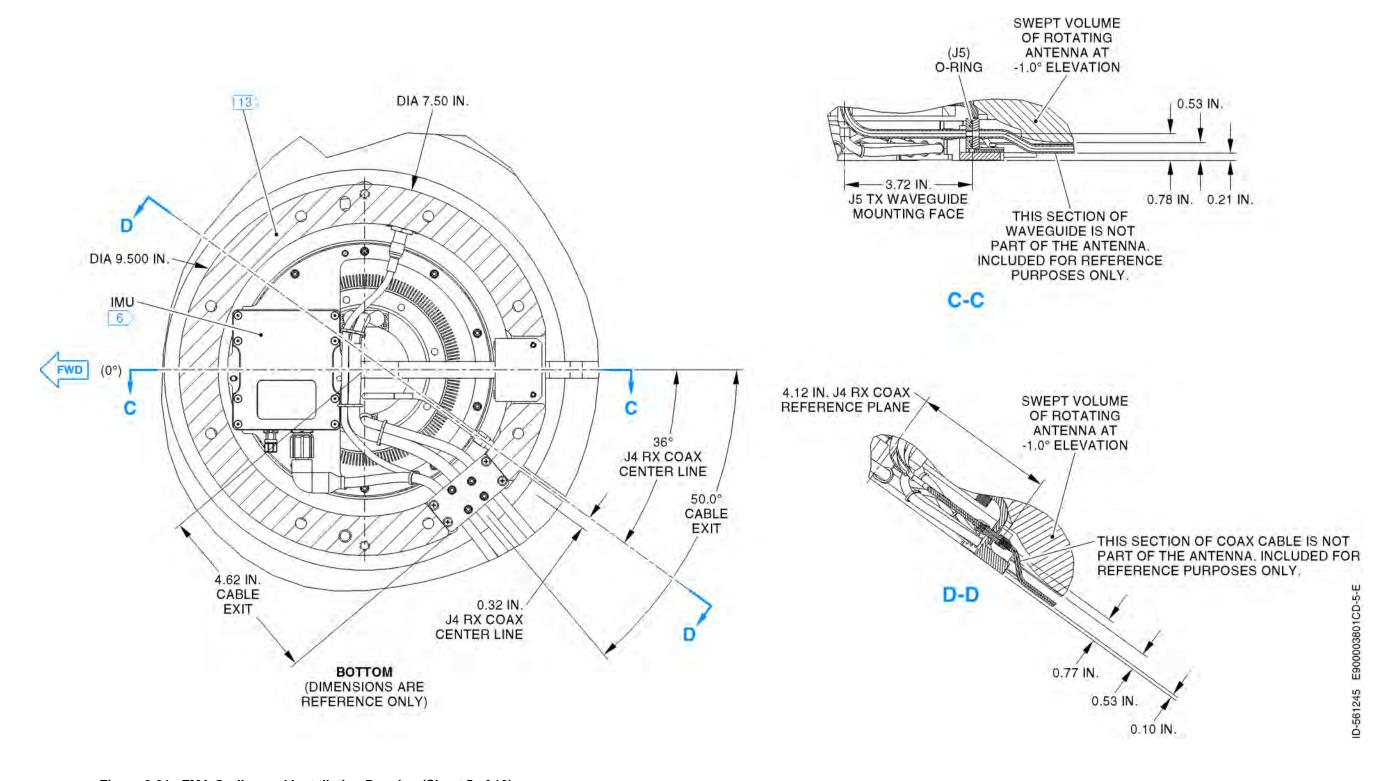


Figure 2-31. FMA Outline and Installation Drawing (Sheet 5 of 12)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

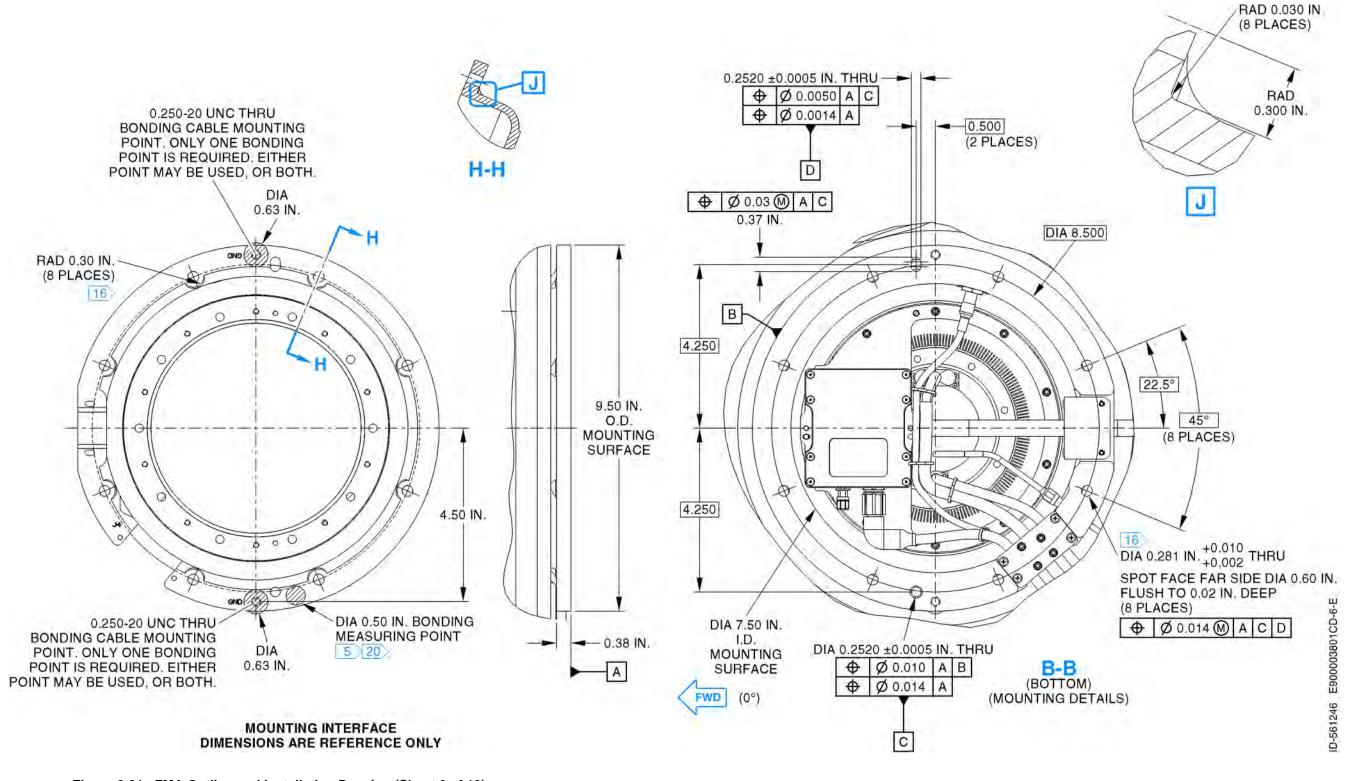


Figure 2-31. FMA Outline and Installation Drawing (Sheet 6 of 12)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

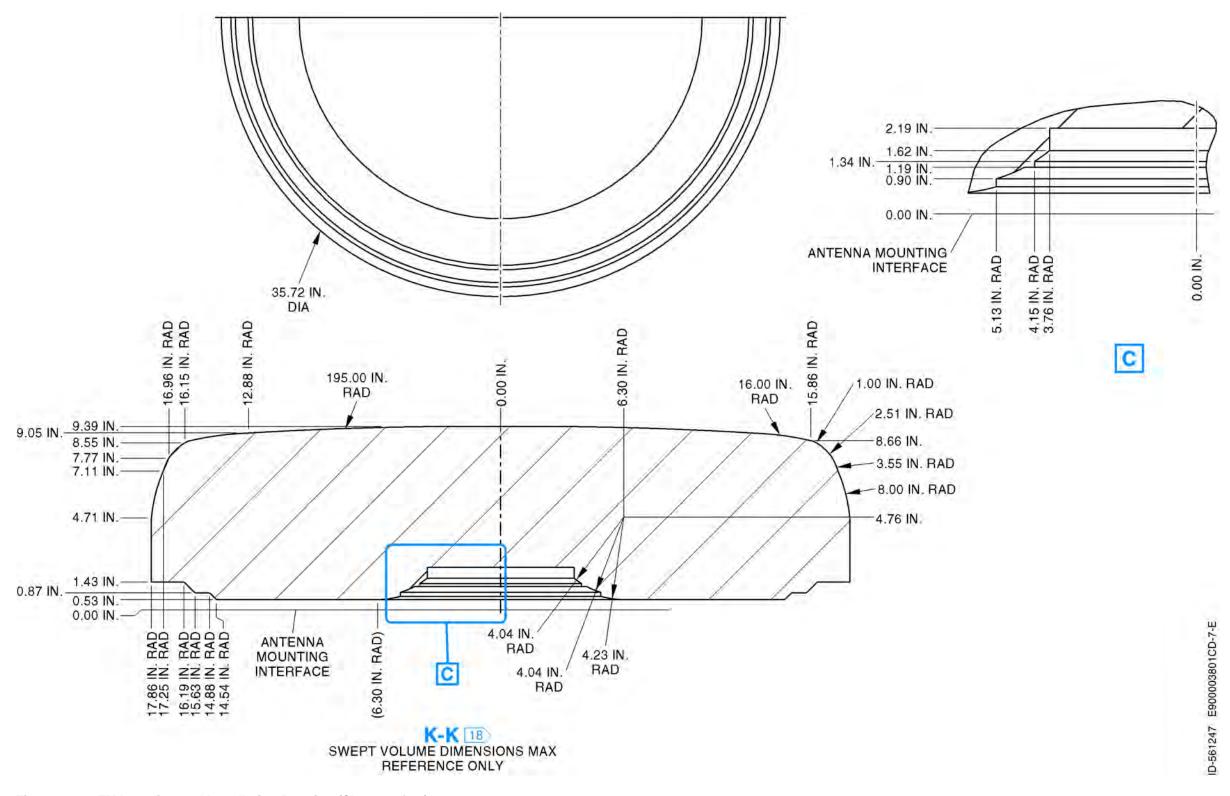


Figure 2-31. FMA Outline and Installation Drawing (Sheet 7 of 12)

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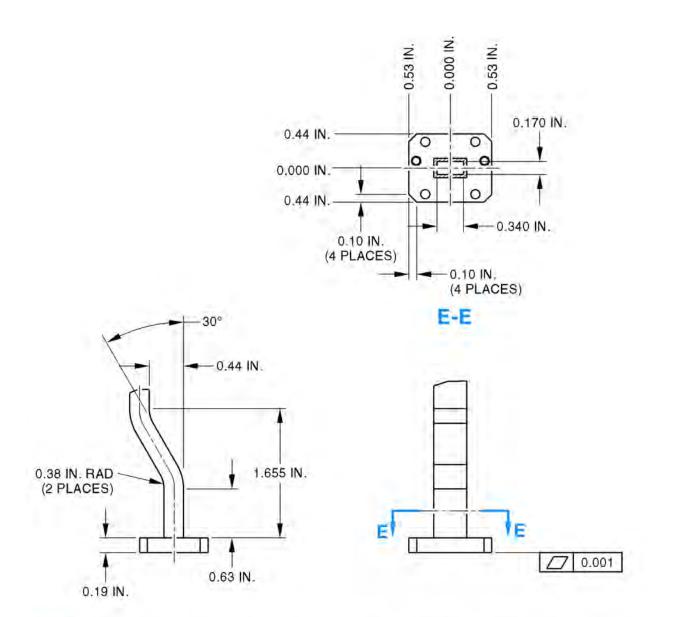
SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System



#### NOTES:

- Mating waveguide dimensions jog is required to keep out of the swept volume of the rotating antenna.

  OFHC copper waveguide WR34 per M85/1-107 Flanges: Copper alloy C36000.

  Finish the assembly with chromate conversion coating.

  Tin plate exterior surfaces per MILI-T-10727, Type I, 0.0002 to 0.0004 inch thick. Mask inside waveguide surfaces.
- 2 Mating coax dimensions jog is required to keep out of the swept volume of the rotating antenna.

Cable: 141 Simi-rigid coaxial Supplier: EZ Form Cable Corp. Supplier PN: EZ141LATP.

INFORMATION CONTAINED ON THIS SHEET IS NOT PART OF THE ANTENNA, INCLUDED FOR REFERENCE PURPOSES ONLY.

-0.141 IN.

- 0.60 IN.

(D-561248

0.0970 ±0.005 IN. DIA THRU V 0.120 IN. DIA MAX X 90°

45°

0.40 IN.

E

1.310 IN.

F

0

0.320 IN.

PLACES)

0.000 IN

REFERENCE

PLANE

(2.92 MM)

MALE

0.117 ±0.001 DIA THRU \

⊕ Ø 0.002 D E F

(2 PLACES) 0.335 IN.

(2 PLACES) 0.0900 IN.

(2 PLACES) 0.335 IN.

(4 PLACES)

0.000 IN

Figure 2-31. FMA Outline and Installation Drawing (Sheet 8 of 12)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

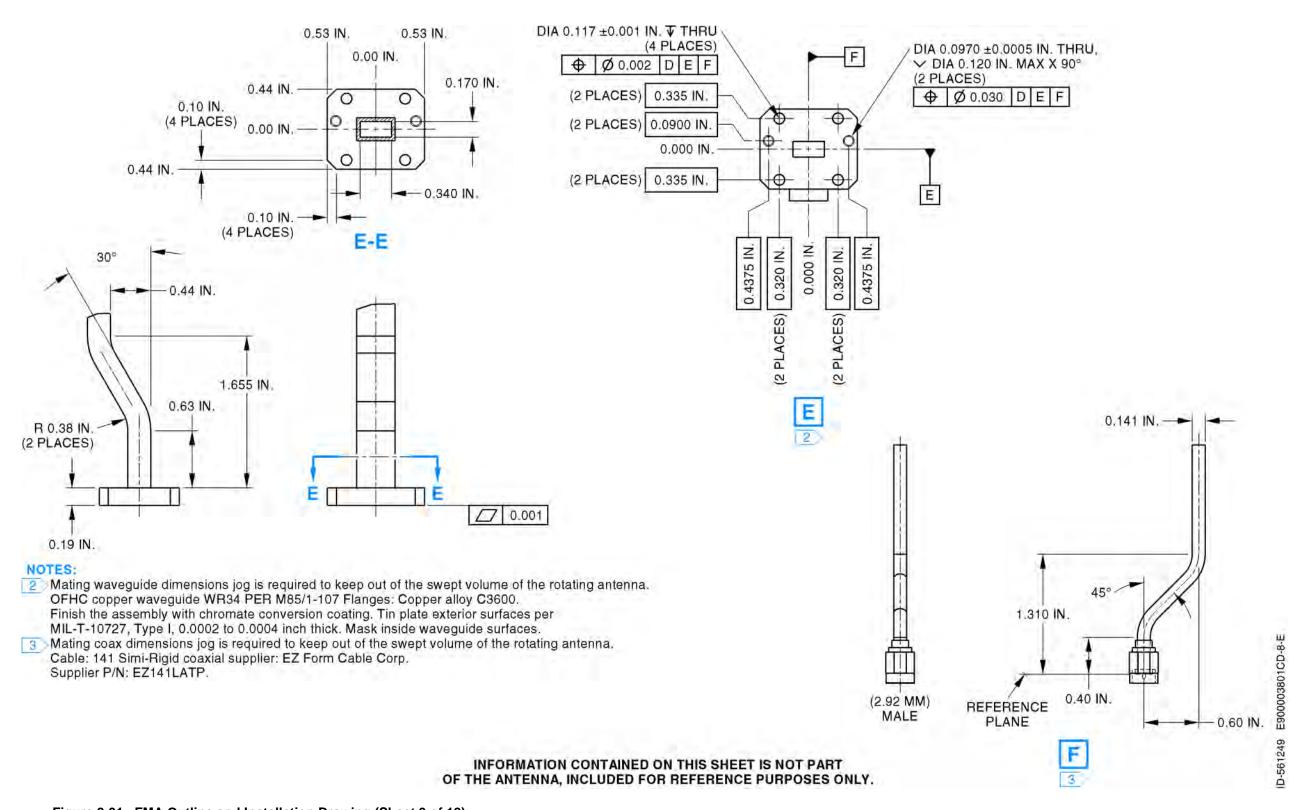


Figure 2-31. FMA Outline and Installation Drawing (Sheet 9 of 12)

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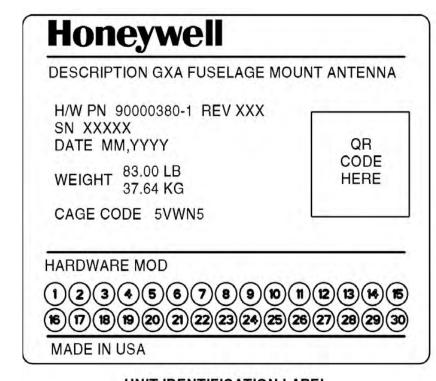
SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

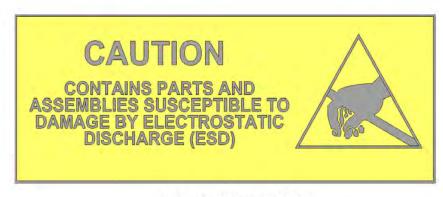


CAUTION HIGH FREQUENCY
RADIATION HAZARD

30 GHz

DO NOT APPROACH WITHIN
66.6ft (20.3M) OF THE ANTENNA
DURING TRANSMISSION

RF HAZARD WARNING LABEL



**ESD WARNING LABEL** 

**UNIT IDENTIFICATION LABEL** 

PN 90000452-1 REV X

CAGE CODE 5VWN5

SN XXXXX

SUBASSEMBLY MARKING REFERENCE ONLY 7-28 | Z30 | E80000380||CD-10-

Figure 2-31. FMA Outline and Installation Drawing (Sheet 10 of 12)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

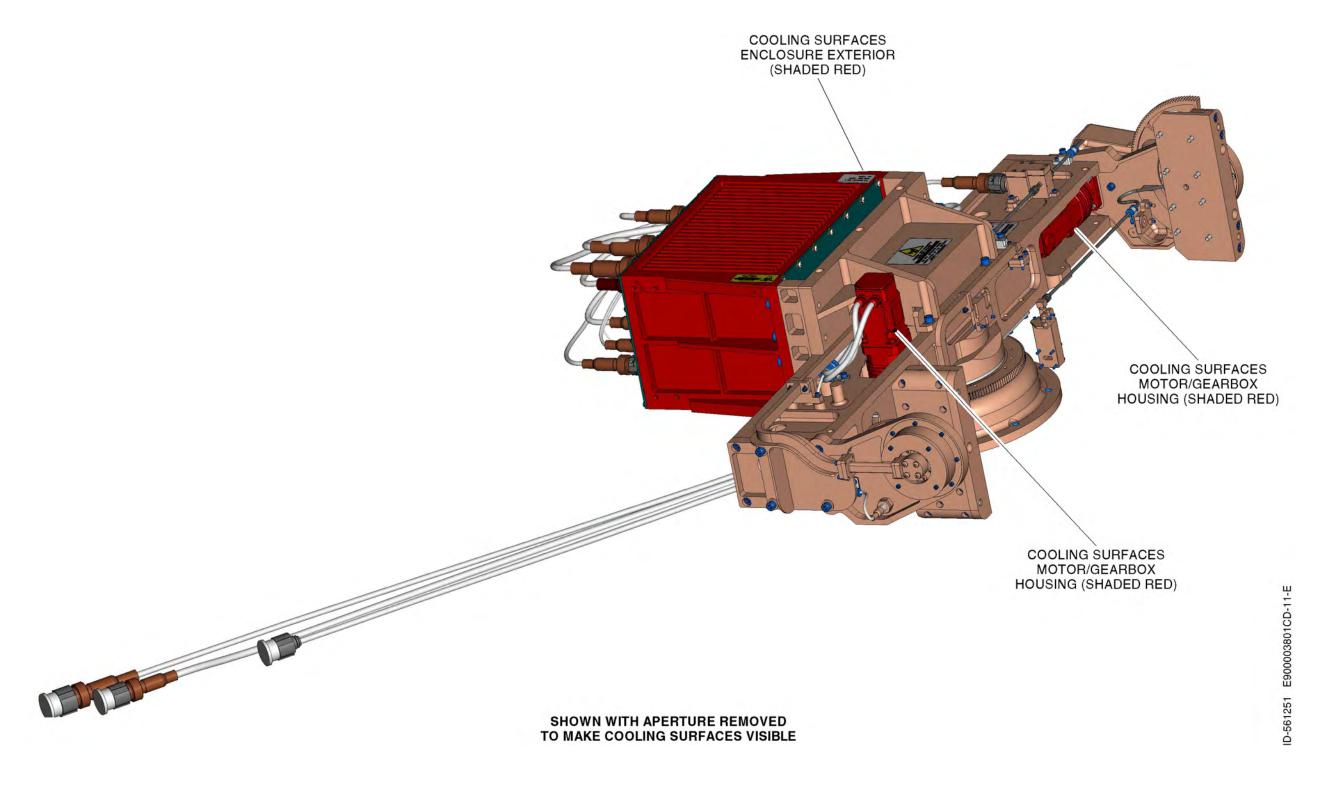


Figure 2-31. FMA Outline and Installation Drawing (Sheet 11 of 12)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

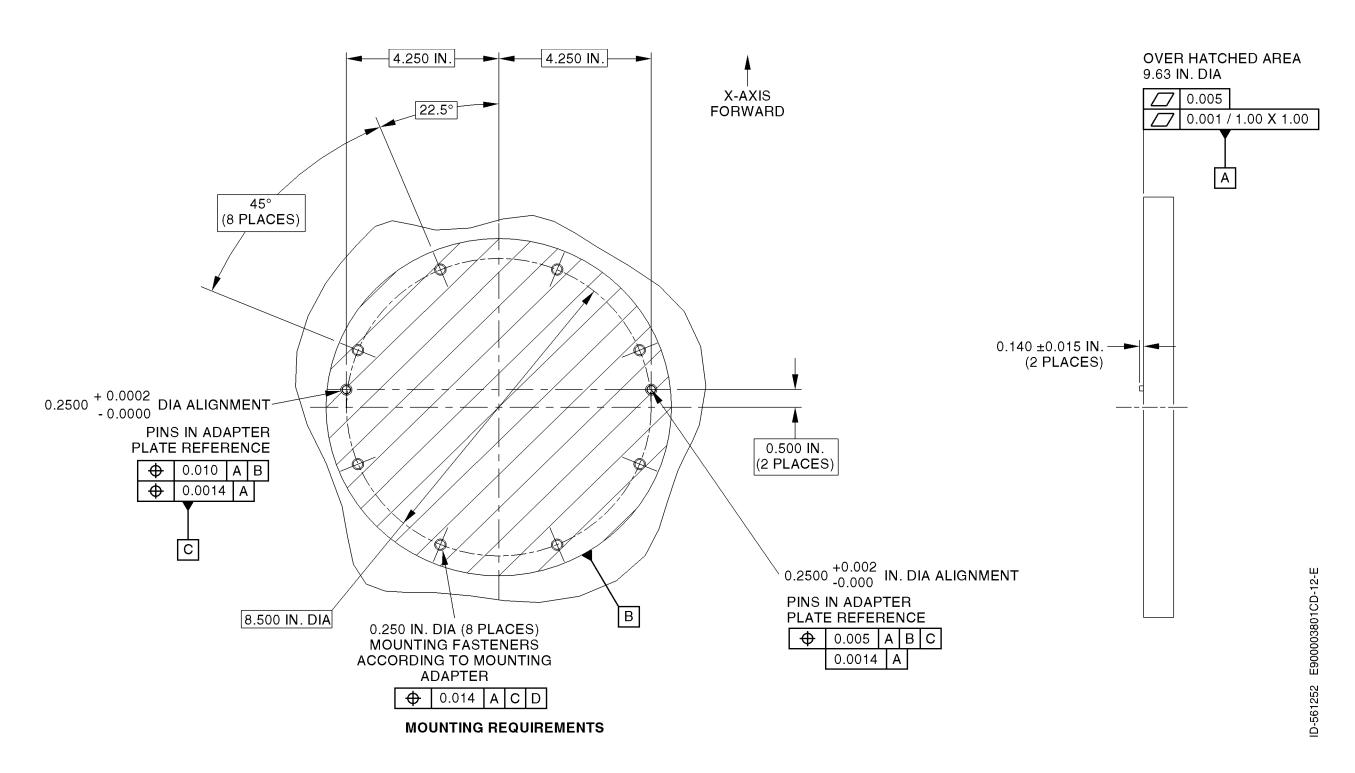


Figure 2-31. FMA Outline and Installation Drawing (Sheet 12 of 12)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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#### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System



Figure 2-32. Fuselage Mount Radome Outline and Installation Drawing (Sheet 1 of 6)

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JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

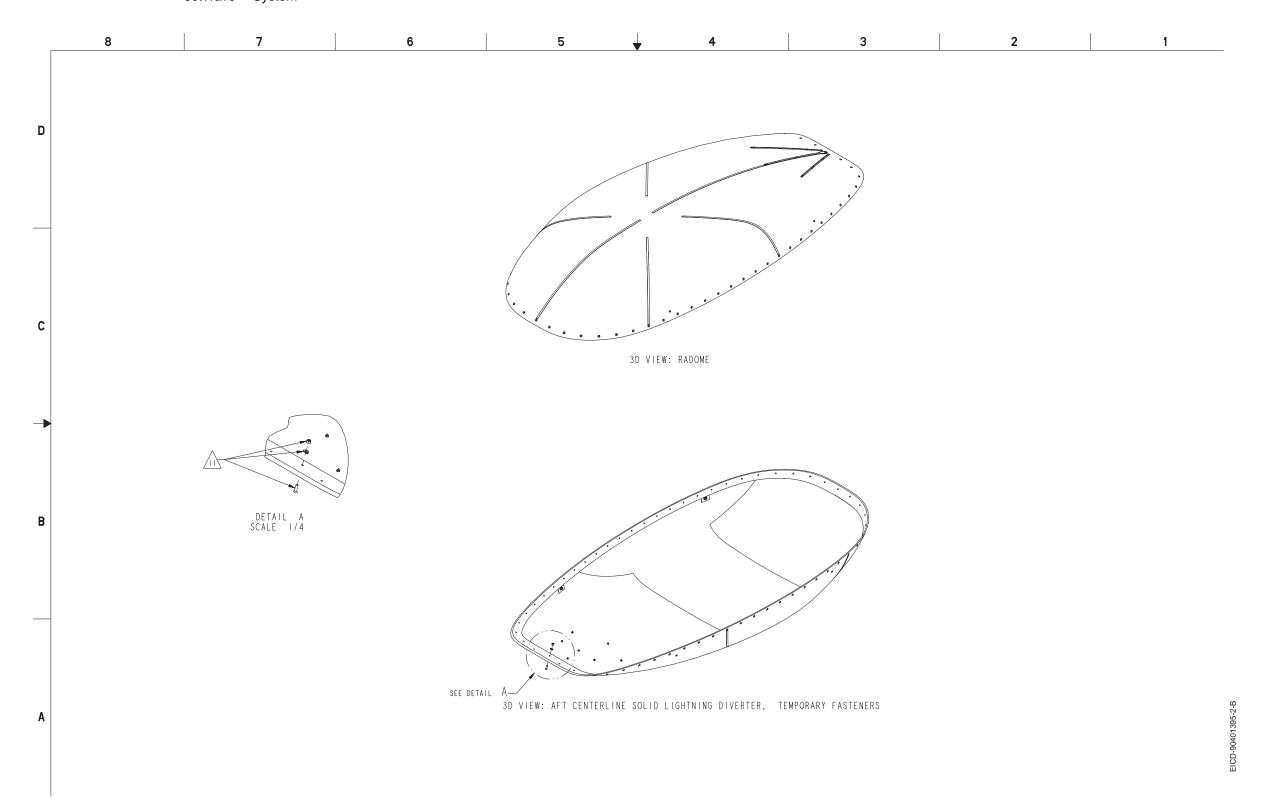


Figure 2-32. Fuselage Mount Radome Outline and Installation Drawing (Sheet 2 of 6)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

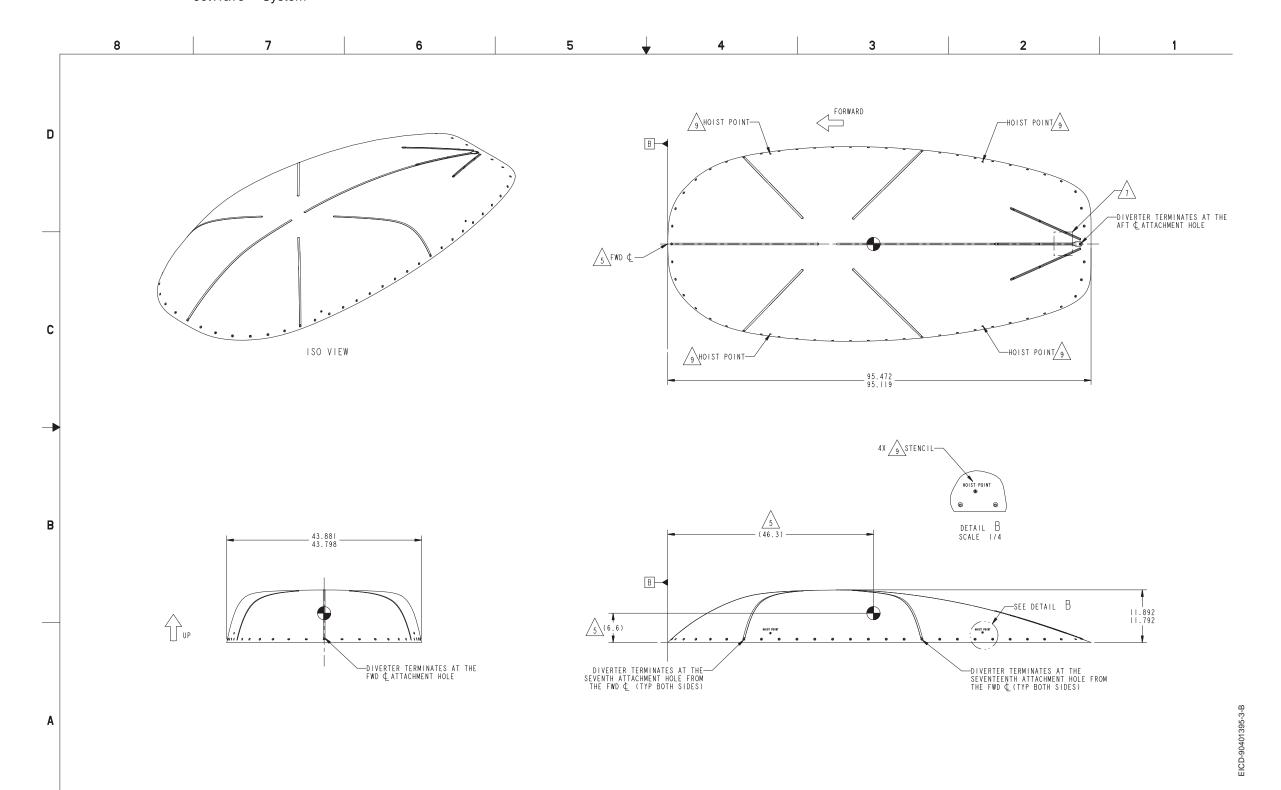


Figure 2-32. Fuselage Mount Radome Outline and Installation Drawing (Sheet 3 of 6)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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# SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

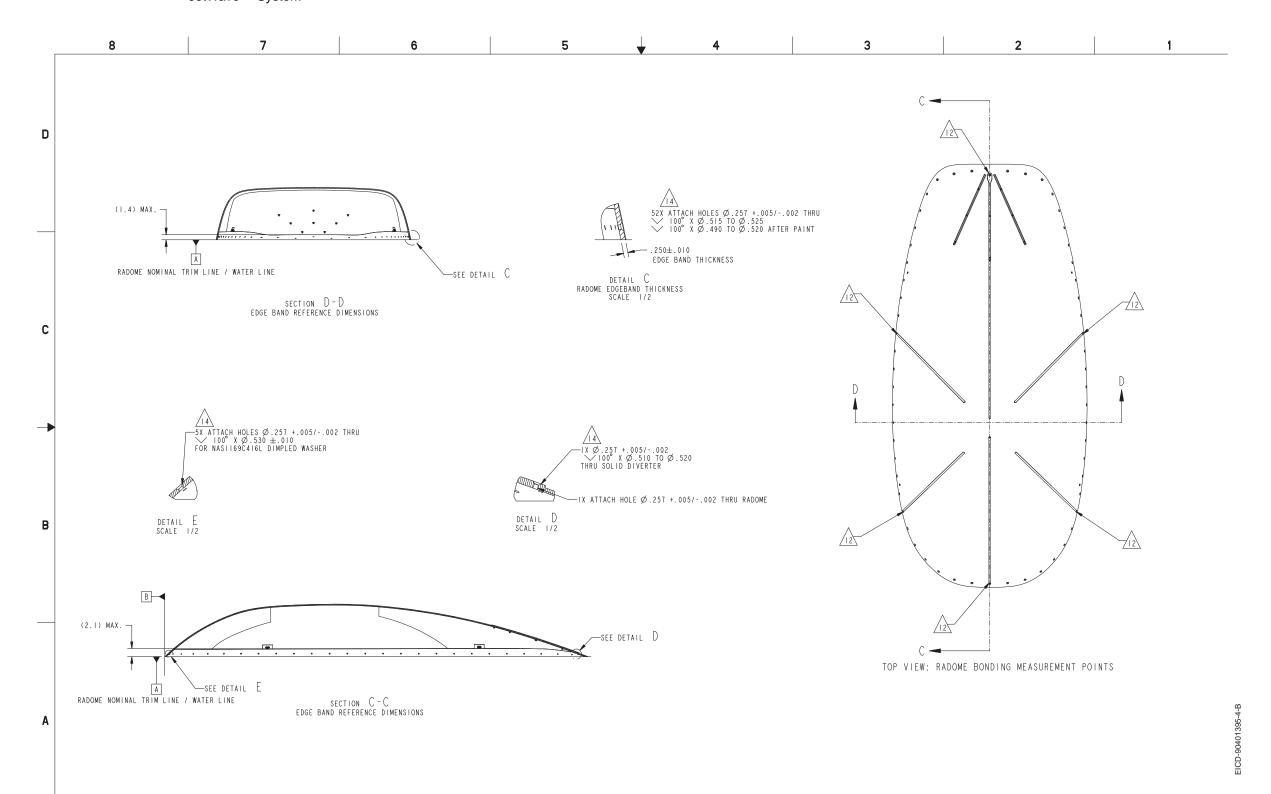


Figure 2-32. Fuselage Mount Radome Outline and Installation Drawing (Sheet 4 of 6)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

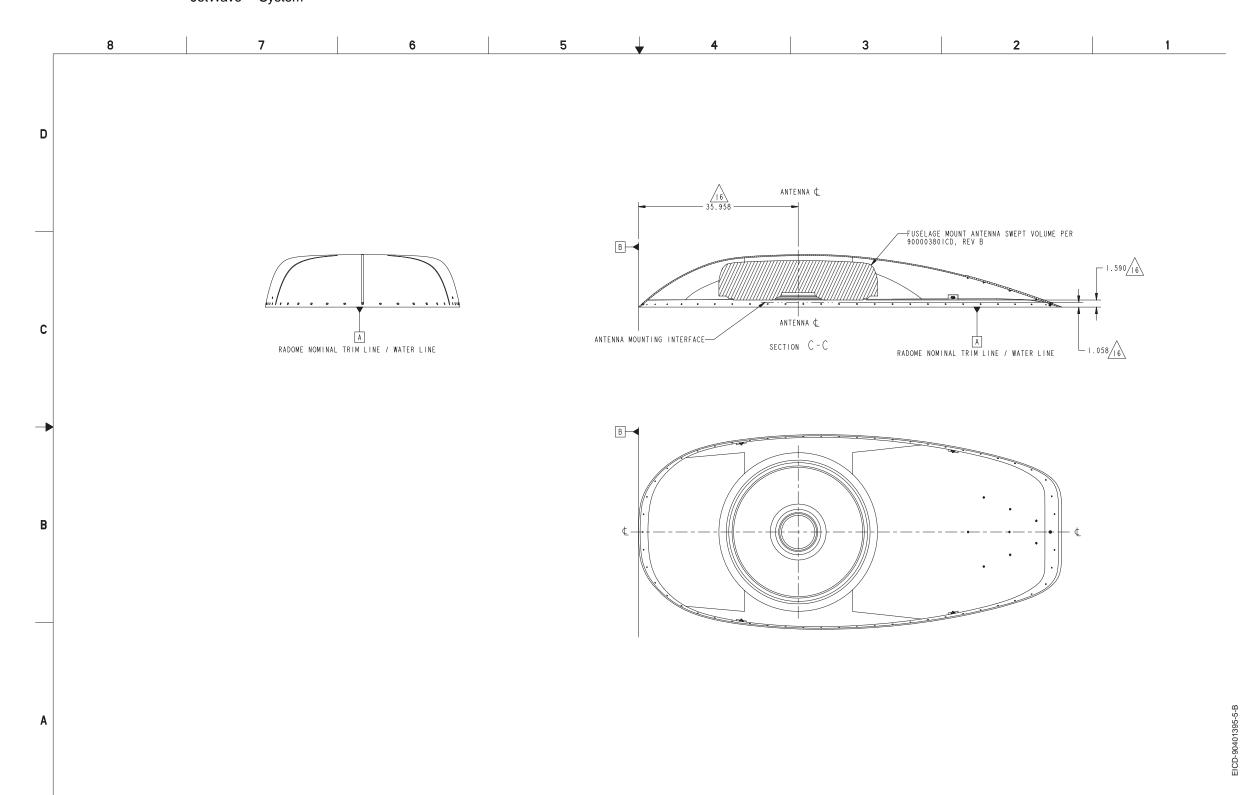


Figure 2-32. Fuselage Mount Radome Outline and Installation Drawing (Sheet 5 of 6)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

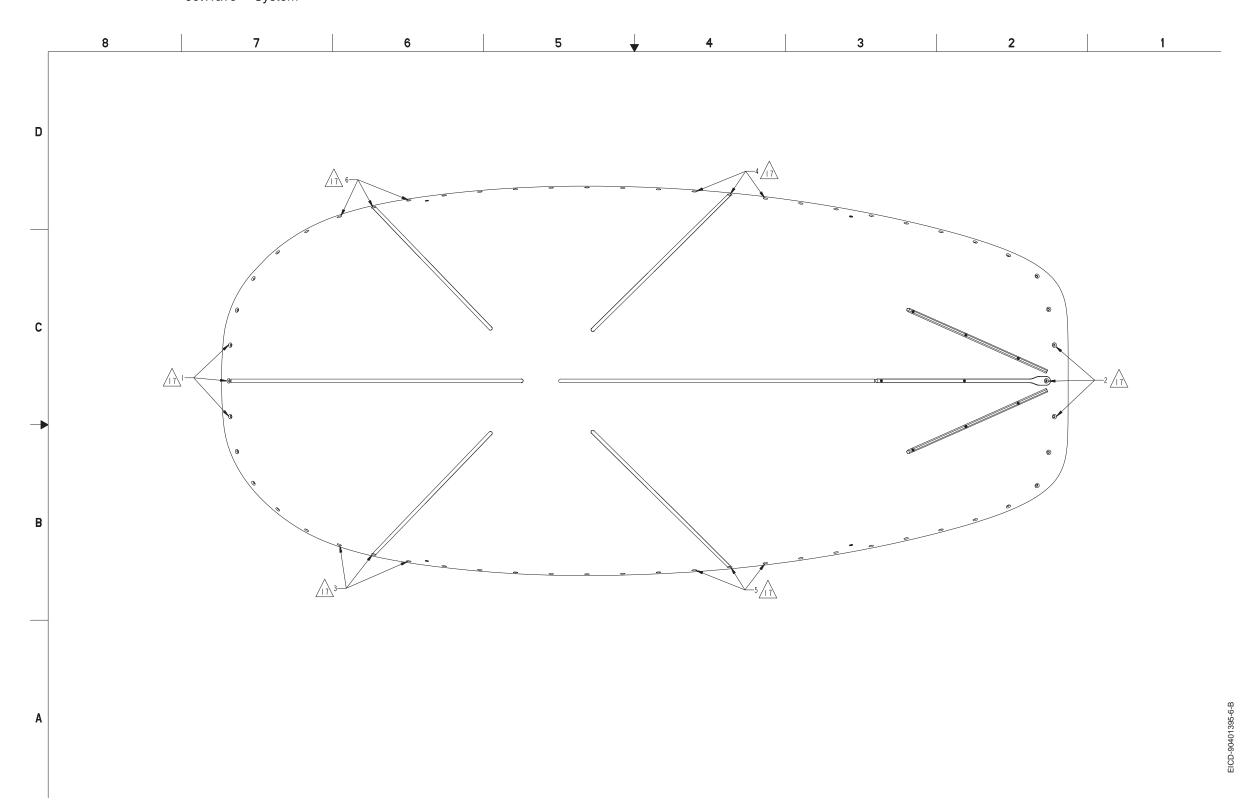


Figure 2-32. Fuselage Mount Radome Outline and Installation Drawing (Sheet 6 of 6)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

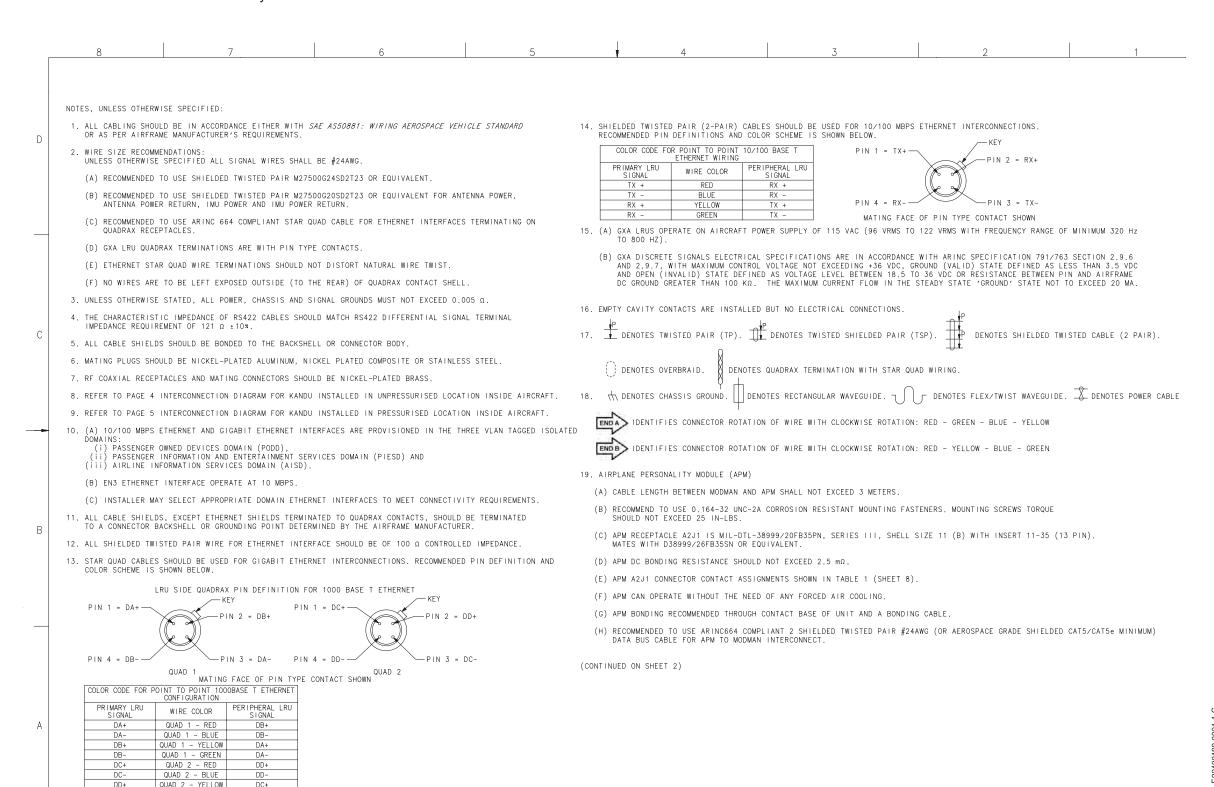


Figure 2-33. JetWave™ System Interconnect Diagram - TMA (Sheet 1 of 10)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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# SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

8	7	6	5	4	3	2		1			
NOTES (CONTINUED F	PAN SHEET 1).										
20. MODEM MANAGER											
)	(MODMAN) MOUNTED ONLY IN AN ARINC 600 TRAY	WITH MATCHING CONNECTOR SCHENE		22 KA DAND ALDODAET NET	WORKING DATA HNIT (KANDII)(CONT	INHED					
(B) THE MODMAN MATES WITH	USES A STANDARD ARINC SPECIFICAT RADIALL NSXN2B875S00 OR EQUIVALE	ION 600, SIZE 2 CONNECTOR.	(C) KANDU RECEPTACLE NORMAL KEYING, WI	22. KA-BAND AIRCRAFT NETWORKING DATA UNIT (KANDU)(CONTINUED) (C) KANDU RECEPTACLE A3J3 IS MIL-DTL-38999/20FG35PN, SERIES III, FLANGE MOUNT RECEPTACLE, INSERT 21-35, NORMAL KEYING, WITH 79 PIN-TYPE CONTACTS OF SIZE 22 AWG.							
(i) MODM (ii) MODM (iii) MODM	E RECEPTACLE INCLUDES THREE SEPAR AN A1J1-A: ARRANGEMENT Q11, SHEL AN A1J1-B: ARRANGEMENT 12002, SH AN A1J1-C: ARRANGEMENT 12F5C2, S	.L SIZE 2 (11½ SIZE 8 QUADRAX CA HELL SIZE 2 (118X #22 CONTACTS, SHELL SIZE 2 (4X #12 CONTACTS, 1	VITIES)CONNECTOR. 2 SIZE 8 QUADRAX CAVITIES) CONNEC X #16 CONTACT, 5X SIZE 16	TOR. (D) KANDU RECEPTACLE	MATES WITH D38999/26FG35SN FOR CONTROL INTERFACE.  (D) KANDU RECEPTACLE A3J4 IS TVPOORGQF-21-75P (AMPHENOL)/ EQUIVALENT.  MATES WITH TVO6RQF-21-75S(AMPHENOL)OR EQUIVALENT FOR ETHERNET INTERFACE.						
	CAL CAVITIES, 2X SIZE 5 COAX CAVI DING IS THROUGH CONTACT WITH THE	•	OT USED.	EXCEED 0.684 Ω (C	(E) MAXIMUM ROUND TRIP WIRING INTERCONNECTION RESISTANCE BETWEEN KANDU A3J2 AND OAE-TMA A5J2 SHOULD NOT EXCEED 0.684 Ω (CONSIDERING 20 AWG WIRE). FOR ANTENNA POWER DURING NORMAL OPERATION, THE MAXIMUM						
(D) DC BONDING	RESISTANCE SHOULD NOT EXCEED 2.5	5 mΩ.			AVERAGE POWER REQUIREMENT IS 60 WATTS.						
(E) MODMAN A1J	1 CONNECTOR CONTACT ASSIGNMENTS S	SHOWN IN SHEET 7.			(F) KANDU BONDING TO THE AIRCRAFT SHOULD BE ACHIEVED THROUGH THE MOUNTING STRUCTURE (FASTENERS) AND KANDU A3J1-A.						
(F) MODMAN KEY	ING IS AS SHOWN BELOW.			(G) KANDU CONNECTOR C	(G) KANDU CONNECTOR CONTACT ASSIGNMENTS SHOWN IN TABLES 2, 3, 4 AND 5 (SHEET 8).						
		Dark area represents the key post. Light area indicates the keyway. Diagrams show mating face of connector, top-up.		23. KA-BAND RADIO FREQUE	NCY UNIT (KRFU)						
	1 2 3 4 5  Receptacle (Modman)	6 Plug (Rack)		NORMAL KEYING, WI	4J1 IS MIL-DTL-38999/20FC4PN, TH 4 PIN-TYPE CONTACTS OF SIZE /26FC4SN FOR POWER INPUT.	SERIES III, FLANGE MOUNT RECEP 16 AWG.	TACLE, INSERT 13-4	,			
	Left Post   Center Post   Right F   6   3   1    NET PA1, PODD ETHERNET PA2, PODD	Post Left Post Center Post Rig 4 2	pht Post 5 PA4 ARE DEFINED AS PER	(B) KRFU RECEPTACLE A NORMAL KEYING, WI			PTACLE, INSERT 13-0	35,			
	PART 1 ALTERNATE CONFIGURATION. RX-IF COAXIAL CABLE ASSEMBLY BETW	WEEN MODMAN A1J1-C AND THE KRFU	A4J5 & A4J6 :	(C) KRFU RECEPTACLE A4J3 IS WR28 WAVEGUIDE, M3922/54-003.  MATES WITH M3922/59-005 THROUGH HOLE FLANGE TYPE WR-28 WAVEGUIDE FLANGE PER MIL-DTL-3922/54 (UG599/U) [0.112-40 UNC-2B] FOR RF-TX INTERFACE. REFER TO SDIM FOR WAVEGUIDE PLUMBING DETAILS.							
CONCENTRATI (B) OVERBRAID/S	EF HEAT SHRINK SLEEVING OF LENGTH ON AT TX-IF AND RX-IF CABLE TERMI LEEVE JACKETING SHOULD BE USED FO	NATIONS.  OR PROTECTION OF WIRING BETWEEN	BULKHEAD INTERFACE A6J3B	(D) KRFU RECEPTACLE A MATES WITH M3922/	(D) KRFU RECEPTACLE A4J4 IS WR42 WAVEGUIDE, M3922/54-001.  MATES WITH M3922/59-003 THROUGH HOLE FLANGE TYPE WR 42 WAVEGUIDE FLANGE PER MIL-DTL-3922/54 (UG595/U) [0.112-40 UNC-2B] FOR RF RX INTERFACE.						
AND A6J4B A TO HOUSING.	ND KRFU A4J5/A4J6. OVERBRAID MAY	BE CONNECTED VIA CONNECTOR SHI	ELD/HOUSING OR DIRECTLY	(E) RECOMMENDED TO US	E WR42 TO 2.92MM WAVEGUIDE TO	COAXIAL ADAPTOR CONNECTED AT K	RFU A4J4 END.				
NECTION BET	LE WITH FOLLOWING SPECIFICATIONS WEEN MODMAN AND KRFU. NIMUM CABLE INSERTION LOSS SHOULD		INTERCON-			TNC FEMALE PER MIL-C-87104/2. MIL-C-87104/2 FOR TX-IF INTERFACE (LABELED BLUE).					
(ii) THE MA (iii) THE NO	NIMOW CABLE INSERTION LOSS SHOULD XIMUM CABLE INSERTION LOSS SHOULD MINAL CHARACTERISTIC IMPEDANCE : z) FREQUENCIES.	NOT TO EXCEED 18 dB AT 1450 MH		(G) KRFU RECEPTACLE A4J6 IS TNC FEMALE PER MIL-C-87104/2. MATES WITH TNC MALE PER MIL-C-87104/2 FOR RX-IF INTERFACE (LABELED GREEN).							
(iv) MAXIMU (v) THE IS	M <sup>´</sup> VOLTAGE STANDING WAVE RATIO (VS OLATION BETWEEN THE TX-IF CABLE A HANDLING CAPABILITY : +5 dBM AT I	AND THE RX-IF CABLE SHOULD BE A	MINIMUM OF 120 dB AT 2150 MHz.	(H) THE RECEIVE PATH INTERCONNECT LOSSES BETWEEN THE KRFU AND OAE-TMA SHOULD BE A MINIMUM OF 0.5 dB AND SHOULD NOT EXCEED 2 dB.							
	RUN ATTENUATION AT 50 MHz SHOULD RIATION IN CABLE LOSS BETWEEN TX-		NOT EXCEED 1 dB AT 1450 MHz.	<ol> <li>RECOMMENDED TO USE BLUE COLOR CABLE SHRINK FOR THE TX-IF COAX CABLE AND GREEN COLOR CABLE SHRINK FOR THE RX-IF COAX CABLE.</li> </ol>							
	E SHOULD BE BLUE BANDED NEAR TNC/ E SHOULD BE GREEN BANDED NEAR TNC			AT COAX CABLE TER		5°±0.05° SHOULD BE PROVIDED TO LUE COLOR CABLE SHRINK FOR THE					
CABLE INTE	D TO USE 10.5 dB EQUALIZER IN TX- RCONNECT BETWEEN MODMAN A1J1-C AN KRFU IS LESS THAN 6.5 dB AT 950	ND BULKHEAD INTERFACE IF THE COA		(K) COAXIAL CABLE WIT TO COAX ADAPTER A		OMMENDED FOR RECEIVE PATH INTE	RCONNECTION BETWEEN	N WAVEGUIDI			
(F) RECOMMENDED TO USE 4.8 dB EQUALIZER IN TX-IF COAX CABLE INTERCONNECT AND 5 dB ATTENUAT CABLE INTERCONNECT BETWEEN MODMAN A1J1-C AND BULKHEAD INTERFACE IF THE COAX INTERCONNE MODMAN AND KRFU IS GREATER THAN OR EQUAL TO 6.5 dB BUT LESS THAN 11 dB AT 950 MHz.			X INTERCONNECTS LOSS BETWEEN	(ii) THE NOMINAL CHARACTERISTIC IMPEDANCE : 50 Ω.  (L) THE TRANSMIT PATH INTERCONNECT LOSSES BETWEEN THE KRFU AND OAE-TMA SHOULD NOT EXCEED 0.6 dB.							
22. KA-BAND AIRCRA	FT NETWORKING DATA UNIT (KANDU)				REQUENCY RANGE OF OPERATION :						
(A) KANDU RECEP	(A) KANDU RECEPTACLE A3J1 IS MIL-DTL-38999/20FD19PN, SERIES III, FLANGE MOUNT RECEPTACLE, INSERT 15-19, NORMAL KEYING, WITH 19 PIN-TYPE CONTACTS OF SIZE 20 AWG. MATES WITH D38999/26FD19SN FOR AIRCRAFT INTERFACE.				(N) KRFU POWER AND CONTROL CONNECTOR CONTACT ASSIGNMENTS SHOWN IN TABLES 6 AND 7 (SHEET 8).						
					(0) AWG 18 CABLE MAY BE USED FOR KRFU POWER FOR REDUCED VOLTAGE DROP IN CONSULTATION WITH AIRCRAFT MANUFACTURE						
NORMAL KEYI	(B) KANDU RECEPTACLE A3J2 IS MIL-DTL-38999/20FC4SN, SERIES III, FLANGE MOUNT RECEPTACLE, INSERT 13-4, NORMAL KEYING, WITH 4 SOCKET-TYPE CONTACTS OF SIZE 16 AWG.				(P) KRFU LRU IS CONDUCTION COOLED THROUGH BASE PLATE WITH THERMAL PAD. RECOMMENDED TO USE T-FLEX 560, 0.060 THICK MATERIAL AS THERMAL PAD. TOTAL SURFACE AREA IS 105.2 SQ INCH.						
MATES WITH	D38999/26FC4PN FOR POWER OUTPUT.			(CONTINUED ON SHEET 3)							

Figure 2-33. JetWave™ System Interconnect Diagram - TMA (Sheet 2 of 10)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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# SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

8	7	6	5	4	3	2	
NOTES (CONTINUED	FROM SHFFT 2).						
23. KA-BAND RADIO FREQUENCY UNIT (KRFU)(CONTINUED)  (Q) KRFU LRU THERMAL PAD SHOULD BE COMPRESSED BY 25% (CORRESPONDING TO 30 PSI OF PRESSURE) DURING INSTALLATION TO FILL 0.045 INCH GAP.							
(R) THE TRANSM	ofs from GAF. IT AND RECEIVE INTERCONNECT ASSEMBLI VER FREQUENCY RANGE OF OPERATION.	ES BETWEEN KRFU AND OAE-TMA SHOULD	HAVE VSWR BETTER THAN OR EQUAL				
	NG TO THE AIRCRAFT SHOULD BE ACHIEVE	D THROUGH MOUNTING FASTENERS ON THE	KRFU AND KRFU A4J1-C.				
24. BULKHEAD INTE	RFACE						
	D TO USE MIL-DTL-38999 SERIES III, NNECTOR FOR KANDU INTER-WIRING TO MC CRAFT.						
(B) RECOMMENDE CONTROL CO INSIDE AIR	D TO USE MIL-DTL-38999 SERIES III, NNECTOR FOR KANDU INTER-WIRING TO KR CRAFT.	INSERT 19-35, NORMAL KEYING WITH 66 FU & OAE-TMA IF KANDU IS INSTALLED	CONTACTS AS KANDU BULKHEAD IN PRESSURIZED LOCATION				
	D TO USE MIL-DTL-38999 SERIES III, ECTOR IF 115 VAC POWER IS NOT PROVIS						
	D TO USE TNC/N-TYPE HERMETICALLY SEA TWEEN MODMAN AND KRFU. TX-IF INTERF		104/2 FOR ROUTING TX-IF				
(E) RECOMMENDE SIGNALS BE	D TO USE TNC HERMETICALLY SEALED BUL TWEEN MODMAN AND KRFU. RX-IF INTERF	KHEAD INTERFACE PER MIL-C-87104/2 F FACE TO BE LABELED GREEN.	OR ROUTING RX-IF				
IS USED, I	AD INTERFACE DESIGN COULD BE EITHER T SHOULD BE INSTALLED SUCH THAT THE CONNECTOR IS USED, JAM-NUT CONNECTO	FLANGE IS LOCATED ON THE PRESSURIZE					
	NTERFACE SHOULD BE INSTALLED SUCH TH E ON UNPRESSURIZED SIDE OF THE AIRCR		URIZED AREA AND RECEPTACLE				
(H) THE BULKHE	AD INTERFACE CONNECTORS SHOULD BE EL	ECTRICALLY BONDED TO THE AIRCRAFT.					
25. OUTSIDE ANTEN	NA EQUIPMENT - TAIL MOUNT ANTENNA (C	AE-TMA)					
	OAE RECEPTACLE A5J2 IS MIL-DTL-3899 N-TYPE CONTACTS OF SIZE 20 AWG. MAT						
WITH M3922	OAE RECEPTACLE A5J3 IS WR28 WAVEGUI /59-005 THROUGH HOLE FLANGE TYPE WR2 UNC-2B] FOR RF TX INTERFACE. REFER	8 WAVEGUIDE FLANGE PER MIL-DTL-3922					
(C) TAIL MOUNT	OAE RECEPTACLE A5J4 IS 2.92 MM COAX	FEMALE.					
(D) TAIL MOUN	T OAE RECEPTACLE A5J2 CONTACT ASSIGN	IMENTS ARE SHOWN IN TABLE 8 (SHEET 9	).				
26. BULKHEAD INTE	RFACE POWER AND CONTROL CONNECTOR CO	NTACT ASSIGNMENTS SHOWN IN TABLES 9	, 10 (SHEET 9) AND TABLE 11, 12 (SH	HEET 10).			
	NDED NOT TO USE 'NOT CONNECTED' PINS BE CONSULTED FOR ANY SUCH REQUIREMEN		DIAGRAM FOR ANY OTHER PURPOSE.				

Figure 2-33. JetWave™ System Interconnect Diagram - TMA (Sheet 3 of 10)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

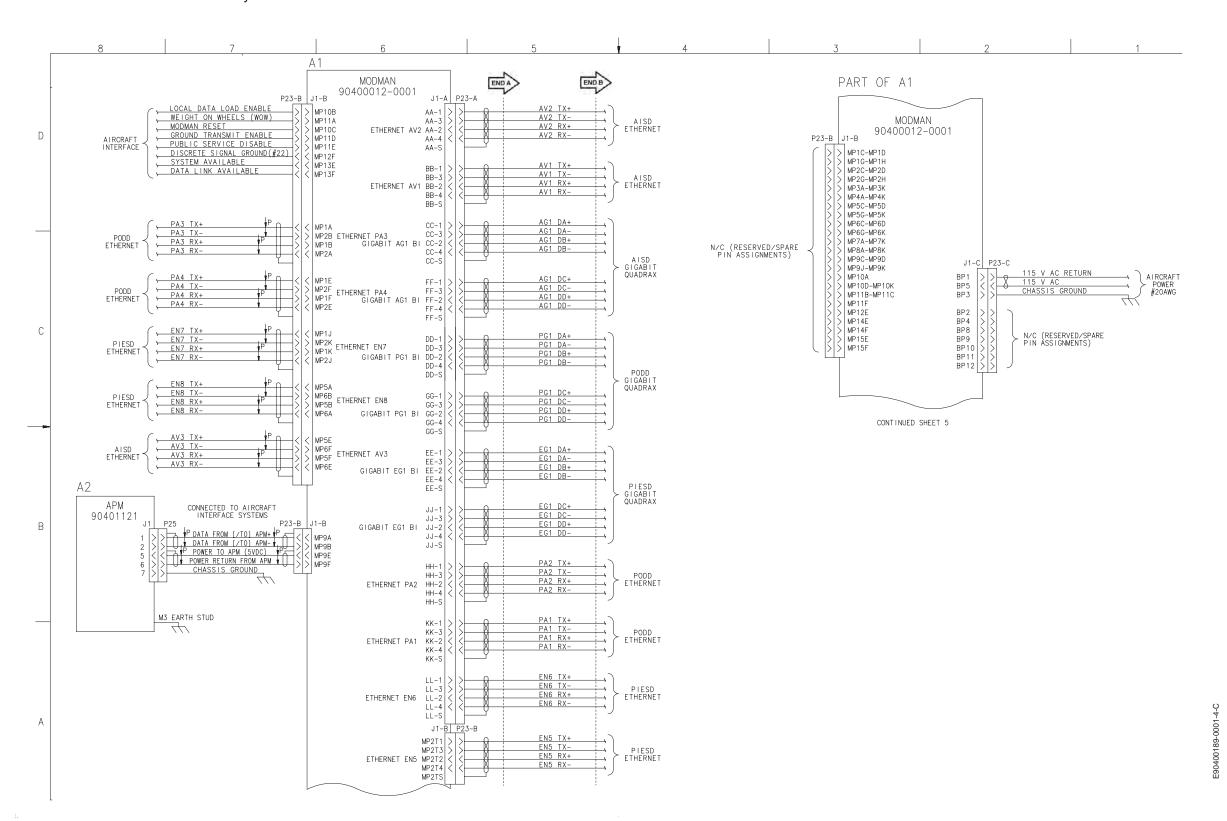


Figure 2-33. JetWave™ System Interconnect Diagram - TMA (Sheet 4 of 10)

SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

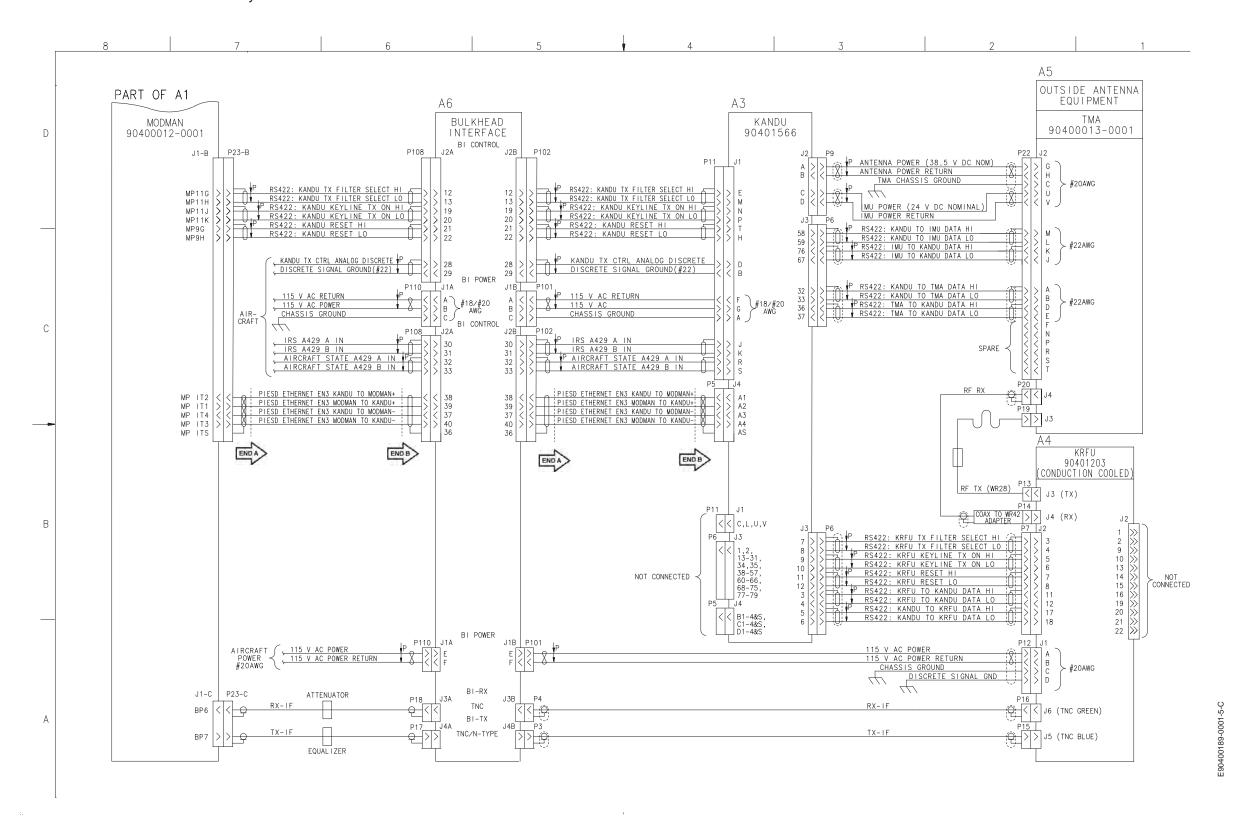


Figure 2-33. JetWave™ System Interconnect Diagram - TMA (Sheet 5 of 10)

SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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#### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

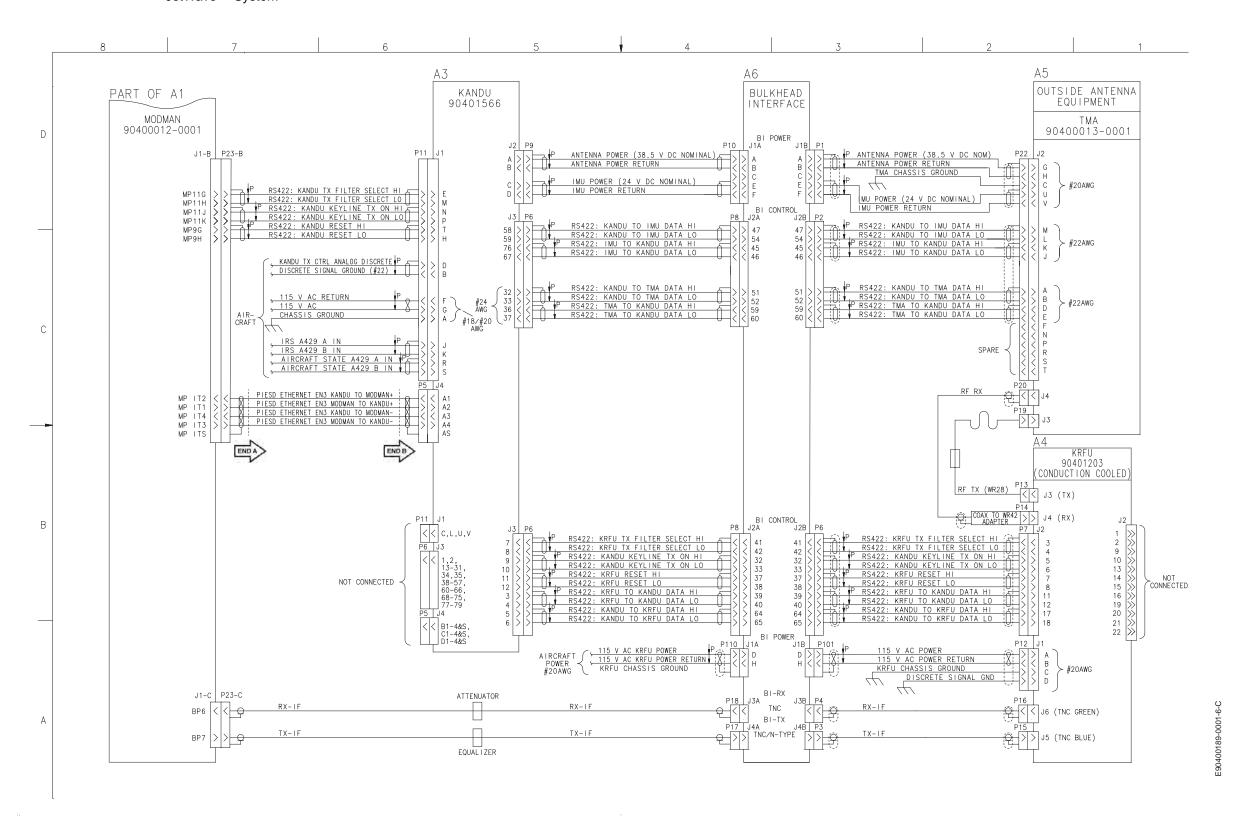


Figure 2-33. JetWave™ System Interconnect Diagram - TMA (Sheet 6 of 10)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

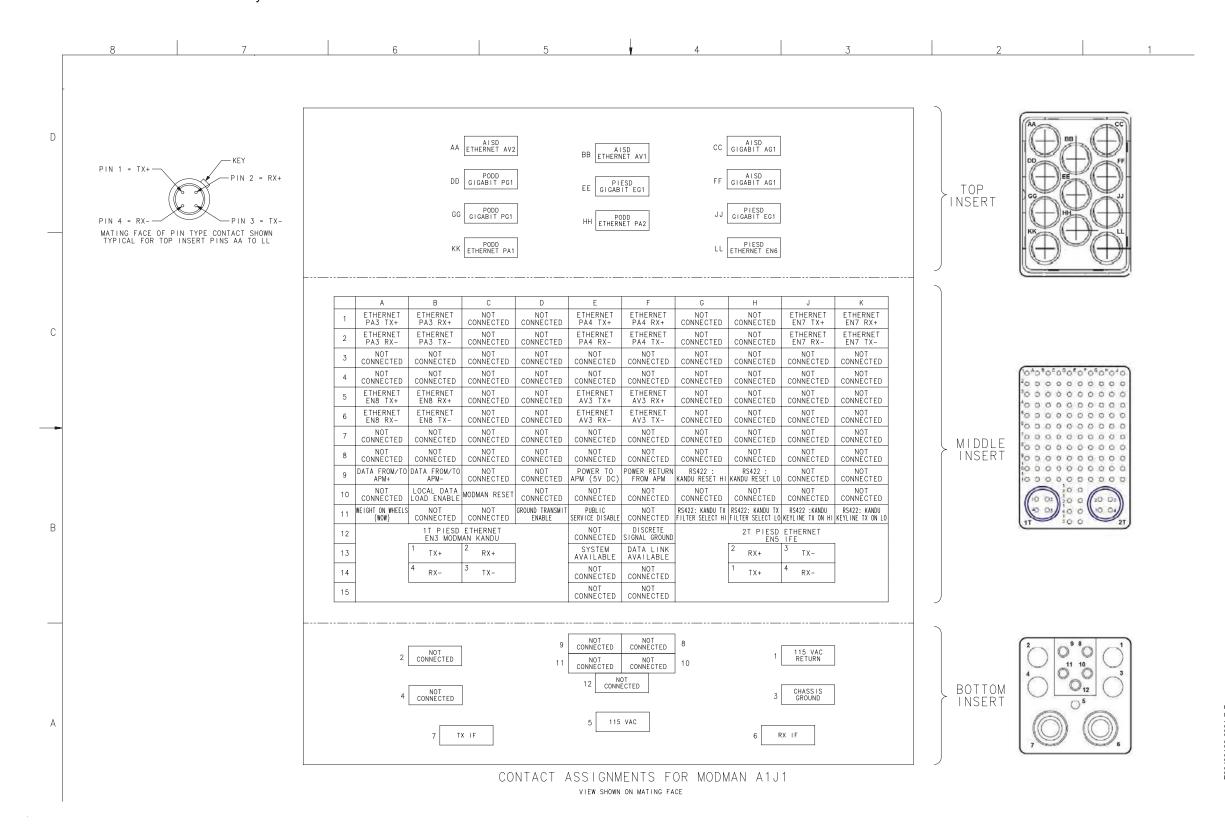


Figure 2-33. JetWave™ System Interconnect Diagram - TMA (Sheet 7 of 10)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

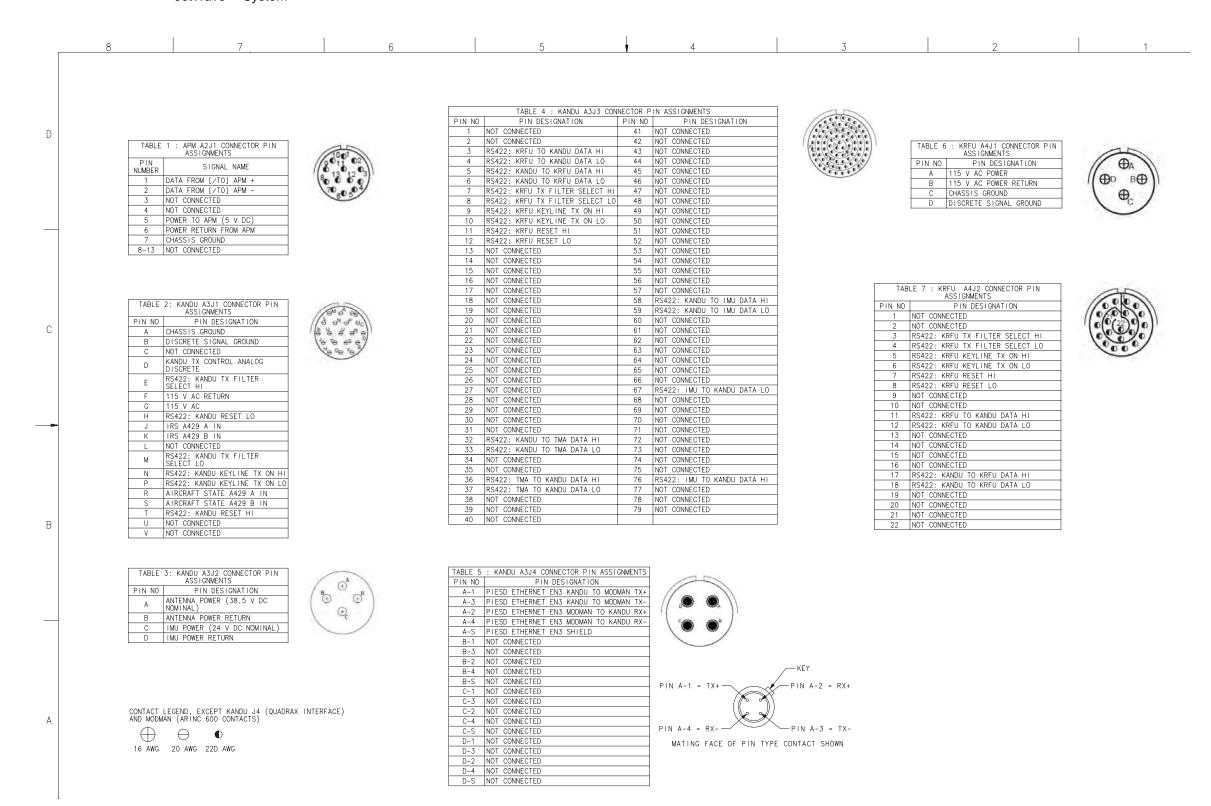


Figure 2-33. JetWave™ System Interconnect Diagram - TMA (Sheet 8 of 10)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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### SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

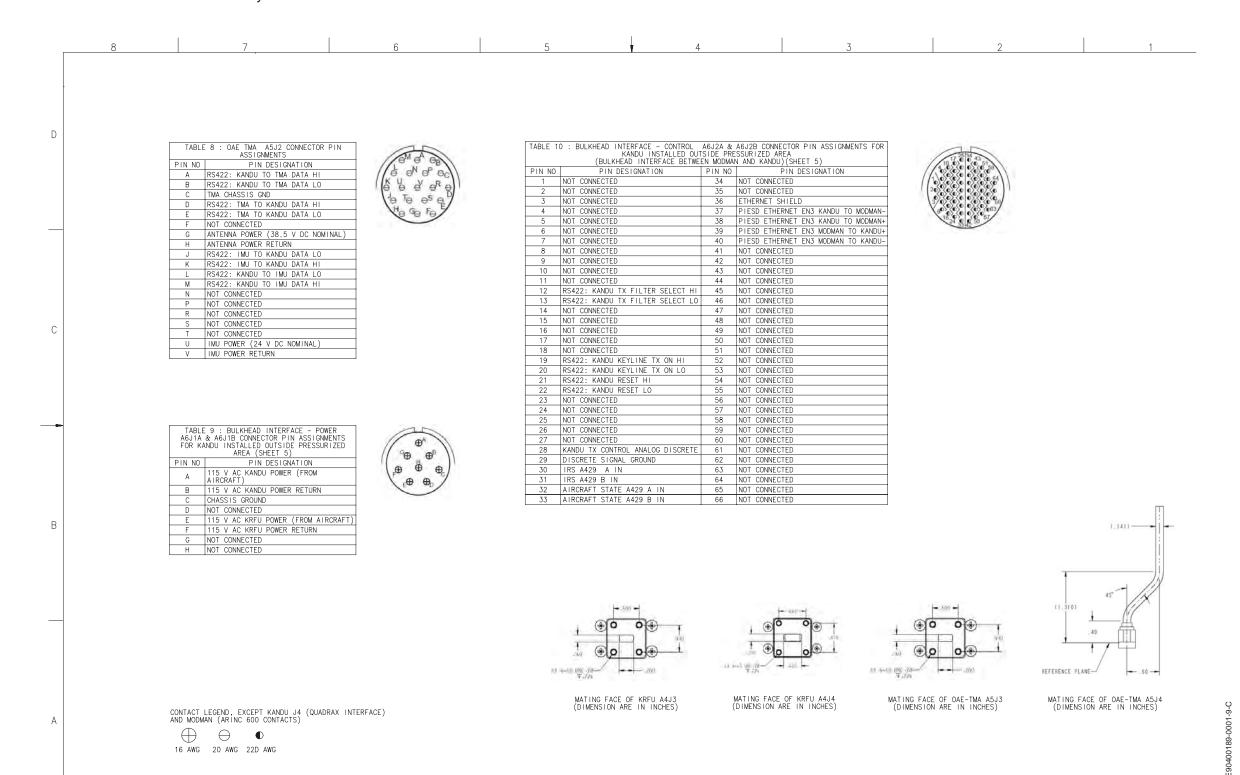


Figure 2-33. JetWave™ System Interconnect Diagram - TMA (Sheet 9 of 10)

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SYSTEM DESCRIPTION AND INSTALLATION MANUAL

JetWave™ System

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# SYSTEM DESCRIPTION AND INSTALLATION MANUAL JetWave™ System

	8	7	6	5	•	4	3	2	1
D	8	TABLE 11 : BULKHEAD INTERFACE - POW A6J1A & A6J1B CONNECTOR PIN ASSIGNM FOR KANDU INSTALLED INSIDE PRESSURI AREA (SHEET 6) PIN NO PIN DESIGNATION A ANTENNA POWER (38.5 V DC NOM) B ANTENNA POWER RETURN C TMA CHASSIS GROUND D 115 V AC KRFU POWER (FROM AIR E IMU POWER (24 V DC NOMINAL) F IMU POWER RETURN G NOT CONNECTED H 115 V AC KRFU POWER RETURN	ER SINTS ZED G G G G G G G G G G G G G G G G G G G		ASSIGNMENTS FOR	' ITERFACE – CONTROL KANDU INSTALLED II E BETWEEN KANDU ANI	NOT CONNECTED  NOT CONNECTED  NOT CONNECTED  RS422: KRFU RESET HI  RS422: KRFU RESET LO  RS422: KRFU TO KANDU DATA HI  RS422: KRFU TO KANDU DATA LO  RS422: KRFU TO FILTER SELECT HI  RS422: KRFU TX FILTER SELECT HI  RS422: KRFU TX FILTER SELECT LO  NOT CONNECTED	2	
С					12	45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 59	RS422: IMU TO KANDU DATA HI RS422: IMU TO KANDU DATA LO RS422: KANDU TO IMU DATA HI NOT CONNECTED NOT CONNECTED NOT CONNECTED RS422: KANDU TO TMA DATA HI RS422: KANDU TO TMA DATA LO NOT CONNECTED RS422: KANDU TO TMA DATA LO NOT CONNECTED RS422: KANDU TO IMU DATA LO NOT CONNECTED RS422: TMA TO KANDU DATA HI RS422: TMA TO KANDU DATA LO		
В					28 NOT CONNECTED 29 NOT CONNECTED 30 NOT CONNECTED 31 NOT CONNECTED 32 RS422: KRFU KEYLINE 33 RS422: KRFU KEYLINE		NOT CONNECTED  NOT CONNECTED  RS422: KANDU TO KRFU DATA HI  RS422: KANDU TO KRFU DATA LO		
А		CONTACT LEGEND, EXCEPT KANDU J4 (QUADR AND MODMAN (ARINC 600 CONTACTS)	AX INTERFACE)						

Figure 2-33. JetWave™ System Interconnect Diagram - TMA (Sheet 10 of 10)

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JetWave™ System

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