REVISION HISTORY							
REV	DESCRIPTION	DATE	DRAWN	CHECKED	MFG	APPROVED	QA
NEW	INITIAL RELEASE	20-FEB-15	OB	-	-	-	-

Notes: Unless otherwise specified

1. TOLERANCES:.
   xx ±.02" [0.5mm]

2. MEASUREMENTS IN PARENTHESIS ARE FOR REFERENCE ONLY

3. CASE SIZE: FORM FACTOR AND MOUNTING PER ARINC 836-1-7

4. WEIGHT: NOMINAL 4.2 lbs [1.90 kg]
   NOT TO EXCEED 4.4 lbs [2.00 kg]

5. ⌖ INDICATES CENTER OF GRAVITY

6. MATERIAL & FINISH:
   MATERIAL (HOUSING): ALUMINUM AlMg3
   ALL SURFACES (EXCLUDING ANTENNA RADOME) CHROMATED WITH SURTEC 650
   OUTER FINISH: POWDER COATING INTERPON 810 (BLACK)
   OR ALESTA IP IE03054913222 (BLACK)
   MATERIAL (ANTENNA RADOME): Lexan 940 (LIGHT GREY, RAL7035)

7. CONNECTORS: SEE CONNECTOR TABLES

8. ELECTRICAL CHARACTERISTICS:
   POWER CONSUMPTION: 21.4 VA MAX AT 115 VAC; 360-800 Hz
   CURRENT DRAW: 175 mA MAX RMS AT 115 VAC
   POWER FACTOR: 0.9 MIN.
   NOTE: IN A DAISY-CHAIN CONFIGURATION THE POWER CONSUMPTION INCREASED BY 20 WATTS PER DAISY-CHAINED DEVICE.

9. COOLING CHARACTERISTICS:
   OPERATIONAL POWER DISSIPATION: 20 W MAX AT 115 VAC
   IDLE POWER DISSIPATION: 7.5 W MAX AT 115 VAC
   COOLING INSTALLATION REQUIREMENTS: STANDALONE, PASSIVELY COOLED PER ARINC 628, PART 7, TYPE3C
   INTERNAL FAN FLOW RATE AND DIRECTION: N/A
   FILTRATION REQUIREMENTS: N/A

10. GROUNDING OR BONDING (OPTIONAL PER OEM INSTALLATION):
    GROUNDING: GROUNDING TO MOUNTING HOLES SHALL BE PER METHODS SPECIFIED IN ADVISORY CIRCULAR AC43.13-1B, SECTION 15 OR EQUIVALENT
    BONDING: THE IMPEDANCE PATH FROM THE LRU CHASSIS TO CONNECTOR PIN DOES NOT EXCEED 5 MILLI-OHMS AND CHASSIS TO THE GROUND STUD SHALL NOT EXCEED 3 MILLI-OHMS MAX.

11. INSTALLATION LIMITATION:
    TO AVOID THE POSSIBILITY OF EXCEEDING ACCEPTABLE EXPOSURE LIMITS, HUMAN PROXIMITY TO AN EXTERNAL ANTENNA SHALL NOT BE LESS THAN 8.0" [203mm] DURING NORMAL OPERATION.
    UNIT CONTAINS ANTENNA ARRAY BELOW ANTENNA RADOME ON TOP OF UNIT. DO NOT HIDE BEHIND SHIELDING METALLIC STRUCTURES TO AVOID DEGRADATION OF WIFI COVERAGE.
    ANTENNA PATTERN IS OMNIDIRECTIONAL DOWNWARDS.
    ORIENT ANTENNA RADOME TOWARDS PASSENGER CABIN IF POSSIBLE.

12. ACCEPTANCE TEST PROCEDURE: AII-FA2066-01

13. MAINTENANCE CONNECTOR J11 IS COVERED BY DUST CAP.

14. NO SPECIAL ESD PROTECTION REQUIRED DURING HANDLING OR INSTALLATION.

15. LABEL CONTENT IS SPECIFIED ON LHT C-ABT183-PD-001 DOCUMENT

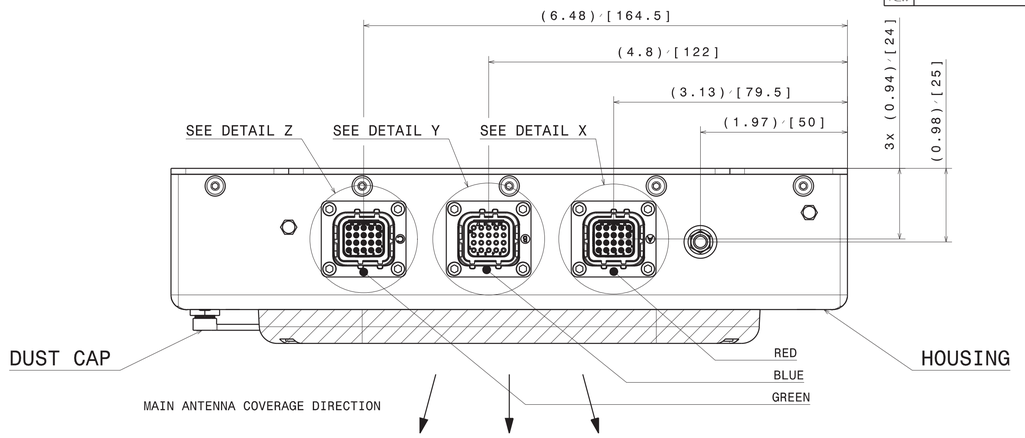
16. PRESSURE WASHER IN ACCORDANCE WITH NAS1149D0316H

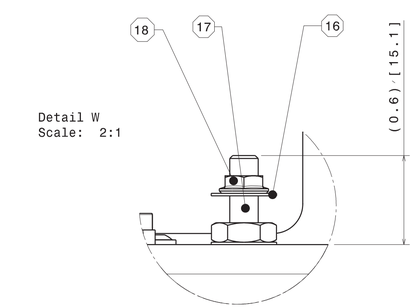
17. INCH THREAD SIZE .1900-32 UNJF-3A

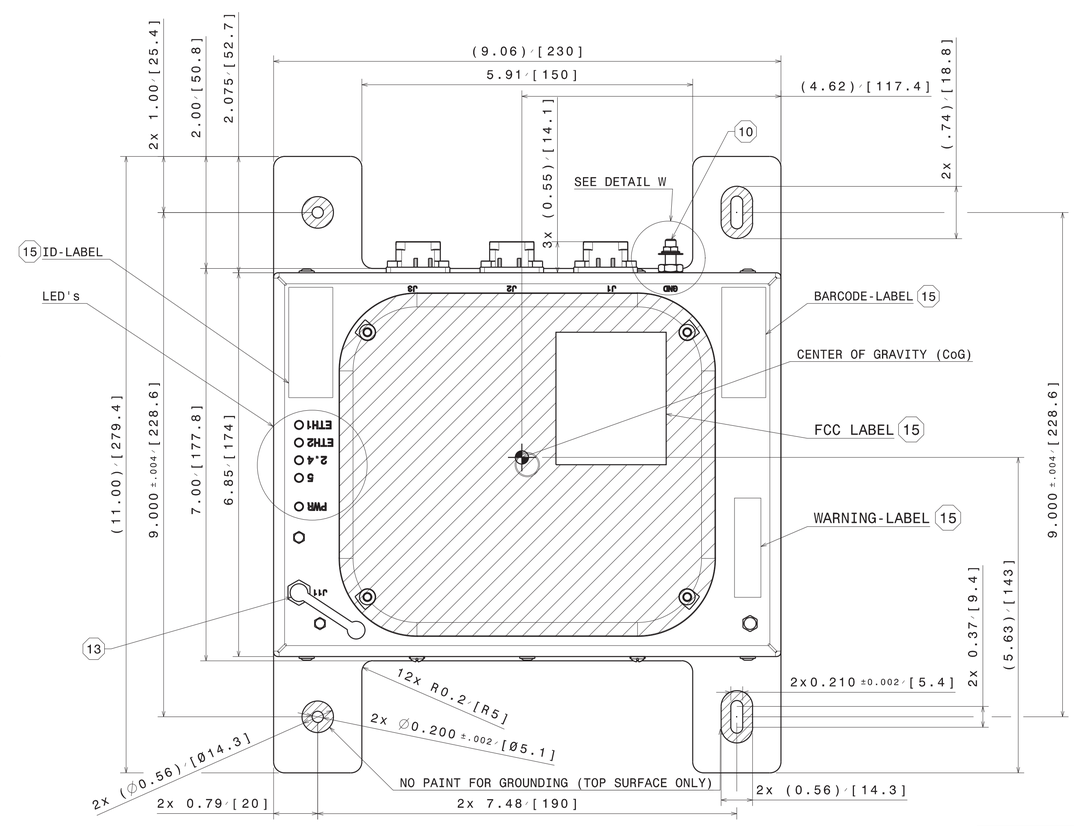
18. SELF LOCKING NUT IN ACCORDANCE WITH MS21042L3

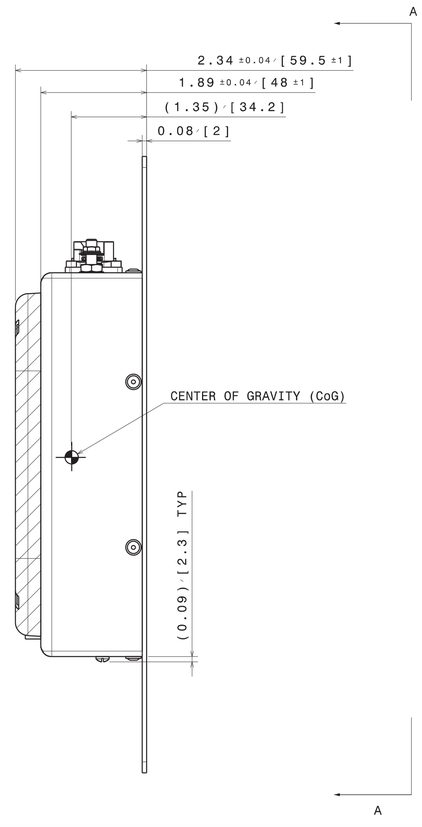
19. ENVIRONMENTAL QUALIFICATION CHARACTERISTICS:
    ENVIRONMENTAL TEST IDENTIFICATION:
    DO-160F ENV. CAT. A3XBB(BE)S[B3/C]XWXXFX
    FOR FURTHER DETAILS SEE QP-FA2066-01ENV (BOEING)

20. TECHNICAL DOCUMENT EXPORT CONTROL CLASSIFICATION (ECCN): 9E991









Panasonic Avionics Corporation
LF Document Control Released
Rev NEW
Date 03-02-2015
Initials HH

THIRD ANGLE PROJECTION

QTY REQD	CAGE CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ITEM NO.
1	C1008	RD-FA206b-01	CABIN WIRELESS ACCESS POINT; DUAL RADIO	LHT WAP3212-001-001	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES WITH MILLIMETERS IN BRACKETS TOLERANCES ARE:
DECIMALS ANGLES
.XX ±0.05 ±2°
.XXX ±0.030
DO NOT SCALE DRAWING

MATERIAL: SEE NOTES
FINISH: SEE NOTES

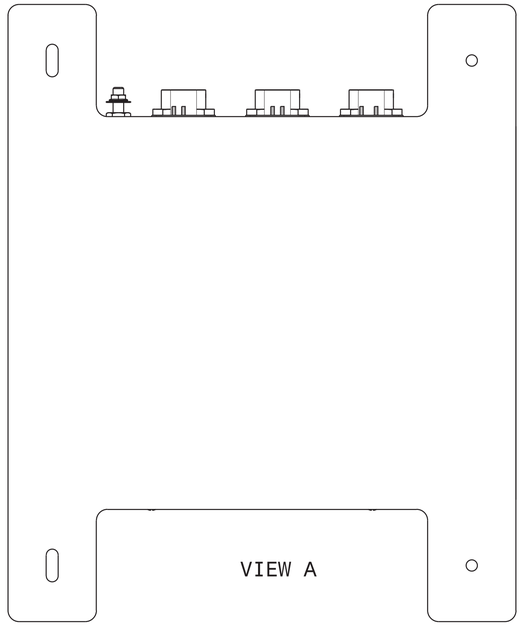
APPROVALS	DATE
DRAWN O. Buhr	20-FEB-15
ANALYST --	"
CHECKED Jon Tomita 2015.02.23 09:05:54 -08'00'	
ELECTRICAL --	"
MANUFACTURING --	"
APPROVED Andrew Barnes 2015.02.26 17:04:52 -08'00'	
QA Jeff Tan 2015.02.27 17:23:37 -08'00'	

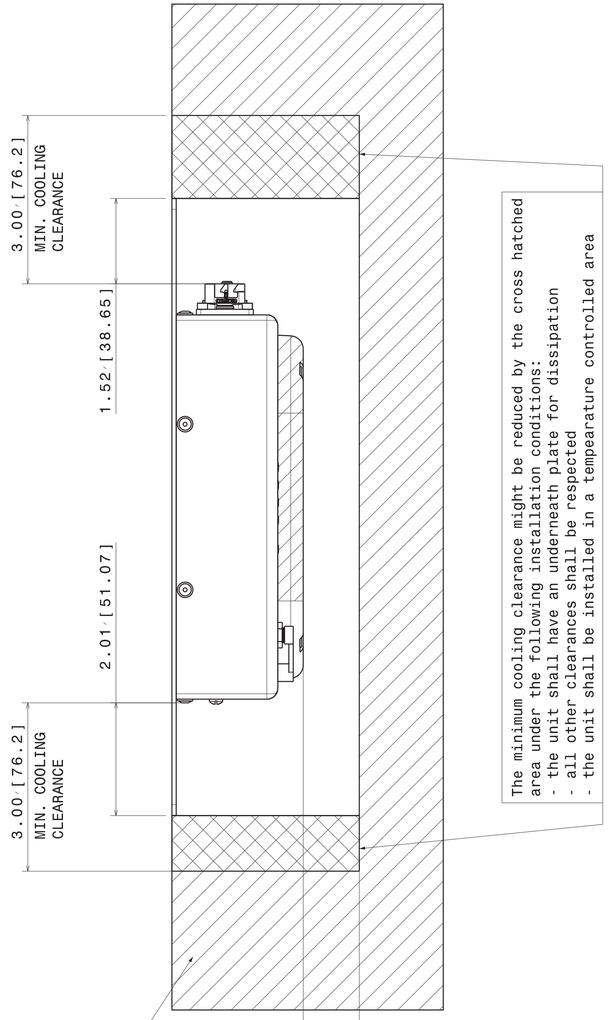
Panasonic Avionics Corporation
26200 Enterprise Way, Lake Forest, Ca. 92630 USA

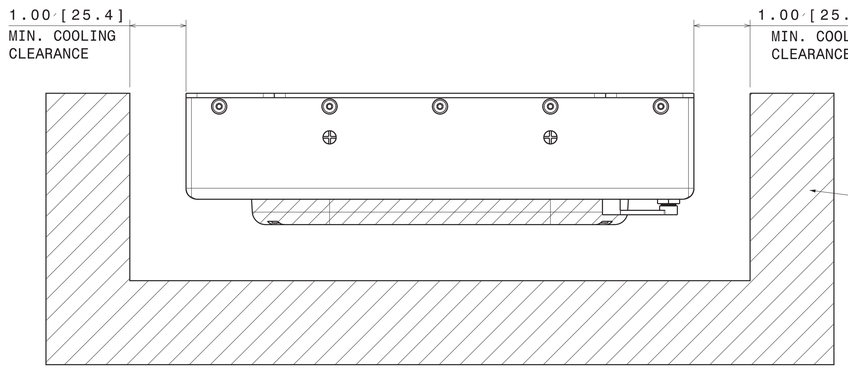
TITLE: CABIN WIRELESS ACCESS POINT; DUAL RADIO

SIZE	CAGE CODE	DRAWING NUMBER	REV
D	1UL05	RD-FA206b-01	NEW

SCALE: - FILENAME: RD-FA206b-01_WAP_OUTLINE.DWG MODEL NAME: RD-FA206b-01 SHEET 1 OF 3







Panasonic Avionics Corporation
26200 Enterprise Way, Lake Forest, Ca. 92630 USA

TITLE
CABIN WIRELESS ACCESS POINT; DUAL RADIO

SIZE	CAGE CODE	DRAWING NUMBER	REV
D	1UL05	RD-FA2066-01	NEW

SCALE: -
FILENAME: RD-FA2066-01_WAP_OUTLINE.DWG
MODEL NAME: RD-FA2066-01
SHEET 2 OF 3

J1	
PIN	CONNECTION
1	BI_DB+ (PORT1) *6
2	BI_DA+ (PORT1) *6
3	CHASSIS GND
4	BI_DD+ (PORT1) *6
5	BI_DC+ (PORT1) *6
6	BI_DA- (PORT1) *6
7	BI_DB- (PORT1) *6
8	CHASSIS GND
9	BI_DC- (PORT1) *6
10	BI_DD- (PORT1) *6
11	RESERVED
12	DISC_IN_POWER_ENABLE
13	RESET *3
14	DISC_GND *5
15	DISC_IN_RF_ENABLE
16	115V AC RETURN
17	CHASSIS GND
18	115V AC
19	PIS1 *1
20	PIS2 *1

J2	
PIN	CONNECTION
1	BI_DA+ (PORT2) *6
2	BI_DB+ (PORT2) *6
3	CHASSIS GND
4	BI_DC+ (PORT2) *6
5	BI_DD+ (PORT2) *6
6	BI_DB- (PORT2) *6
7	BI_DA- (PORT2) *6
8	CHASSIS GND
9	BI_DD- (PORT2) *6
10	BI_DC- (PORT2) *6
11	RESERVED
12	DISC_IN_POWER_ENABLE *2
13	RESERVED
14	DISC_GND *5
15	DISC_IN_RF_ENABLE *2
16	115V AC RETURN
17	CHASSIS GND
18	115V AC
19	PIS1 *1
20	PIS2 *1

J3	
PIN	CONNECTION
1	DISC_IN_CONF_STRAP_0
2	DISC_IN_CONF_STRAP_1
3	DISC_IN_CONF_STRAP_2
4	DISC_IN_CONF_STRAP_3
5	RESERVED
6	DISC_IN_CONF_STRAP_GND_0 *4
7	DISC_IN_CONF_STRAP_GND_1 *4
8	DISC_IN_CONF_STRAP_GND_2 *4
9	DISC_IN_CONF_STRAP_GND_3 *4
10	RESERVED
11	RESERVED
12	RESERVED
13	RESERVED
14	RESERVED
15	RESERVED
16	RESERVED
17	RESERVED
18	RESERVED
19	RESERVED
20	RESERVED

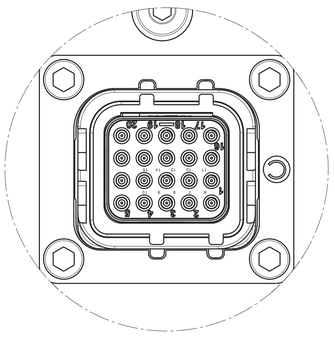
CONNECTOR PART NUMBERS

CONN	LRU RECEPTACLE	LRU MODULE	MATING PLUG	MATING MODULE	MATING BACKSHELL
J1	AMPHENOL P/N SIM2B25A000 OR DEUTSCH P/N DMC-MD24A	AMPHENOL P/N SIME2022PNP OR DEUTSCH P/N 732-8255-22	STANDARD PART EN4165M61AA OR EQUIVALENT	STANDARD PART EN4165A20-22-1NB OR EQUIVALENT	DEUTSCH P/N 787-8055-11M OR EQUIVALENT
J2	AMPHENOL P/N SIMB25B000 OR DEUTSCH P/N DMC-MD24B	AMPHENOL P/N SIME2022SNP OR DEUTSCH P/N 732-8260-22	STANDARD PART EN4165M61AB OR EQUIVALENT	STANDARD PART EN4165A20-22-1NA OR EQUIVALENT	
J3	AMPHENOL P/N SIM2B25C000 OR DEUTSCH P/N DMC-MD24C	AMPHENOL P/N SIME2022PNP OR DEUTSCH P/N 732-8255-22	STANDARD PART EN4165M61AC OR EQUIVALENT	STANDARD PART EN4165A20-22-1NB OR EQUIVALENT	
J11	CUI P/N SJ5-43502PM		3.5MM STEREO AUDIO PLUG		

J11	
PIN	CONNECTION
1	SIGNAL GND
2	RX_DATA_IN
3	TX_DATA_OUT

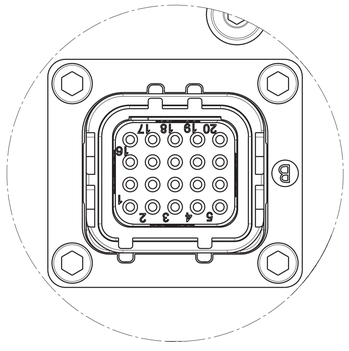
*1 PIS1 & PIS2 (PASSENGER ILLUMINATED SIGNS DISCRETE) JUST DAISY CHAINED FROM J1 TO J2
*2 DAISY CHAIN OUT OF CORRESPONDING DISCRETE ON J1
*3 FOR SHOP MAINTENANCE ONLY (NOT CONNECTED IN AIRCRAFT)
*4 REFERENCE FOR STRAPPINGS ONLY
*5 REFERENCE FOR DISCRETES
*6 FOR EXTERNAL ETHERNET CONNECTION USE CABLE P/N NF24Q100

Detail Z
NOT TO SCALE



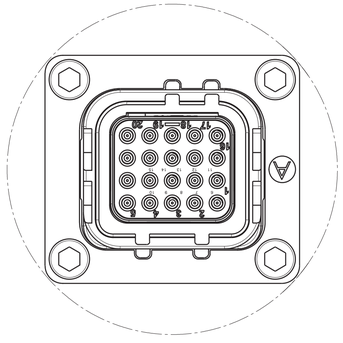
NOTE:
DETAIL Z IS CONNECTOR J3

Detail Y
NOT TO SCALE



NOTE:
DETAIL Y IS CONNECTOR J2

Detail X
NOT TO SCALE



NOTE:
DETAIL X IS CONNECTOR J1

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TITLE
CABIN WIRELESS ACCESS POINT; DUAL RADIO

SIZE	CAGE CODE	DRAWING NUMBER	REV
D	1UL05	RD-FA2066-01	NEW

SCALE: - | FILENAME: RD-FA2066-01_MAP_OUTLINE.DWG | MODEL NAME: RD-FA2066-01 | SHEET 3 OF 3