

8

7

6

5

4

3

2

1

PROPRIETARY NOTICE

FREEDOM OF INFORMATION ACT (5 USC 552) AND DISCLOSURE OF CONFIDENTIAL INFORMATION GENERALLY (18 USC 1605)

NOTICE

DISCLOSURE OF CONFIDENTIAL INFORMATION GENERALLY (18 USC 1605)

THIS DOCUMENT AND THE INFORMATION DISCLOSED HEREIN ARE PROPRIETARY DATA OF HONEYWELL INC. NEITHER THIS DOCUMENT NOR THE INFORMATION CONTAINED HEREIN SHALL BE REPRODUCED, USED, OR DISCLOSED TO OTHERS WITHOUT THE WRITTEN AUTHORIZATION OF HONEYWELL INC.

THIS DOCUMENT IS BEING FURNISHED IN CONFIDENCE BY HONEYWELL INC. THE INFORMATION DISCLOSED HEREIN FALLS WITHIN EXEMPTION (b) (4) OF 5 USC 552 AND THE PROHIBITIONS OF 18 USC 1605.

REVISIONS

DATE

APPROVED

INITIAL RELEASE

NOTES:

1. ASSEMBLE PER M7012784.

2.

CAUTION

THIS ASSEMBLY INCLUDES COMPONENTS WHICH ARE SUBJECT TO DAMAGE BY ELECTROSTATIC CHARGES; THEREFORE, ALL COMPONENTS SHALL BE HANDLED IN ACCORDANCE WITH GUIDELINES FOR ELECTROSTATIC DISCHARGE CONTROL.

3. MAXIMUM COMPONENT HEIGHT:

4. AREAS A AND B SHALL BE FREE OF CONDUCTORS, COMPONENT LEADS, AND COMPONENTS, BOTH SIDES.

5. SIDE B: CONDUCTIVE .375 MAXIMUM, NON-CONDUCTIVE OR GROUNDED CONDUCTIVE CASE .425 MAXIMUM, EXCEPT AREAS C, E, AND L SHALL BE FREE OF COMPONENTS AND COMPONENT LEADS.

6. SIDE A: CONDUCTIVE .110 MAXIMUM, NON-CONDUCTIVE OR GROUNDED CONDUCTIVE CASE .150 MAXIMUM, EXCEPT AREA K CONDUCTIVE .060 MAXIMUM, NON-CONDUCTIVE OR GROUNDED CONDUCTIVE CASE .100 MAXIMUM, AREAS C, D, E, F, AND G SHALL BE FREE OF COMPONENT LEADS AND COMPONENTS, AREAS H AND J SHALL BE FREE OF NON-GROUNDED CONDUCTORS, COMPONENT LEADS AND COMPONENTS.

7. UNLESS OTHERWISE SPECIFIED COMPONENT LEAD PROTRUSION SHALL BE .060 MAXIMUM AND BARE COPPER IS PERMISSIBLE ON TRIMMED SURFACES ON BOTH SIDES.

8. SQUARE PADS ON PRINTED WIRING BOARD INDICATE PIN 1, EXCEPT P1 ROWS 1, 5, 10, P2 ROWS 1, 5, 10, 15, AND 20 SHALL BE SQUARE PADS.

9. APPLY CONFORMAL COAT PER M7010975 TO SIDE A AND B OF CIRCUIT CARD ASSEMBLY EXCEPT P1 AND P2, AREAS A AND B BOTH SIDES, ITEM 1 BOTH SIDES AND J1 THROUGH J4 SIDE B. ITEMS 2 THRU 6 MAY BE FREE OF CONFORMAL COAT.

10. ITEM 6 SHALL BE FLUSH TO .015 TO SIDE B OF PRINTED CIRCUIT BOARD.

11. P1 AND P2 SHALL BE INSTALLED USING TOOLS SPECIFIED IN AND PER AMP INSTRUCTION SHEET 408-4382, REVISION A OR LATER.

12. THIS ASSEMBLY SHALL MEET THE REQUIREMENTS OF HONEYWELL, INC. TECHNICAL REQUIREMENTS SPECIFICATION A72-5111-450.

13. LOCATE PRINTED WIRING BOARD AND CIRCUIT CARD PART NUMBER AND REVISION LETTER ON SIDE A.

14. IF SOLDER MASK IS USED, BOTH SIDES OF AREAS A AND B SHALL BE FREE OF IT.

15. COMPONENTS WEIGHING MORE THAN 1/4 OUNCE PER LEAD SHALL BE BONDED TO THE PRINTED WIRING BOARD USING HONEYWELL PN 97P577800 (DOW CORNING RTV 3146 TRANSLUCENT PER MIL-A-46146, GROUP II, TYPE I).

16. COMPONENTS WEIGHING MORE THAN 1/2 OUNCE SHALL BE LOCATED ALONG THE BOTTOM EDGE (UNIT BOTTOM) OF THE PRINTED WIRING BOARD.

17. PRINTED WIRING BOARD THICKNESS SHALL BE .092±.008 INCH.

18. PREFIX ALL REFERENCE DESIGNATIONS WITH A5.

19. PROVIDE CLEARANCE AROUND J1 THROUGH J4 FOR REMOVAL OF THE MATING CONNECTORS LISTED IN TABLE BELOW.

20. RF AND OCXO MATING CONNECTORS (MATING CONNECTORS ARE SHOWN ON DRAWING FOR REFERENCE):

A5 CONNECTOR	MATES WITH CONNECTOR PN	MATING CONNECTOR DESCRIPTION	SUPPLIER	FUNCTION
J1	2105-1521-003	SMB, PLUG, FEMALE, SOCKET	AEP	TX (TO HPA)
J2	2141-1521-003	SMB, JACK, MALE, PIN	AEP	RX (FROM SPLITTER)
J3	7405-1521-003	SSMB, PLUG, FEMALE, SOCKET	AEP	OCXO RF
J4	65846-010	10 PIN WIRE	BERG	OCXO SIGNALS

21. THIS ASSEMBLY SHALL CONTAIN THE FOLLOWING PARTS:

ITEM NO.	QTY	HONEYWELL PN	HONEYWELL/VENDOR PN	DESCRIPTION	REMARKS OR VENDOR
1	2	3719221-4	98-3	EXTRACTOR	EG AND BIRTCHE
2	2	4051759-9	4051759-9	BUMPER .208 X .390 (SPECIAL)	ARIZONA INDUSTRIAL HDWR
3	2	2504188-131	MS24693C5	SCREW, FHD, 100*, .112-40UNC X .44LG	FOR ITEM 2
4	2	2504638-5	NAS620C4L	WASH, FLAT, #4 REDUCED	FOR ITEM 3
5	2	2500929-2	MS21042L04	NUT, .112-40, SELF-LOCKING, REDUCED	FOR ITEM 3
6	2	7517828-3	B-250-12-0.5-0	BUS BAR	CIRCUIT COMPONENTS
10	1	7024422-55	352115-1	CONN, 55 SOCKET, 2MM, P1	AMP
11	1	7024422-125	352069-1	CONN, 125 SOCKET, 2MM, P2	AMP
12	1	7010077-3	2009-1511-000	CONN, RF, SMB, ST MALE JACK, PIN, J1 (TO HPA)	AEP
13	1	7029754-1	2025-1511-000	CONN, RF, SMB, ST FEMALE PLUG, SOC, J2 (FROM SPLITTER)	AEP
14	1	7500334-3	7210-1511-000	CONN, RF, SSMB, ST MALE JACK, PIN, J3 (TO OCXO 10MHz)	AEP
15	1	7516241-310	00-8380-010-003-010	CONN, HDR, 10P, J4 (TO OCXO SIGNALS)	ELCO (DELETE PINS 3 AND 6)

45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

REV SHEET INDEX

FOR HONEYWELL REFERENCE

MFG REF NO.

DPA NO.

PRODUCT LINE NO.

AN/PS ANALYSIS EB

REF DWG

REF SPEC

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994

MATL PROCESS FINISH

MILITARY DESIGNATION

PROCESS FINISH

SEE 00.40

ITEM CODE (PER EBS9938A) 3

THIRD ANGLE PROJECTION

DWG CLASS

FIRST USED ON

CONTRACT HS-600

OPERATIONAL NOTE

SIMILAR ASSEMBLY

Honeywell

COMMERCIAL FLIGHT SYSTEMS GROUP PHOENIX, ARIZONA

CIRCUIT CARD ASSEMBLY-RADIO, A5

SIZE CASE CODE

DRAWING NO.

SCALE NONE UNIT WT

SHEET 1 OF 2

7519315

7519300

7519310-1

7519300

APPLICATION

4

3

2

1

2531-040 (ASME Y14.5M-1994) HONEYWELL INC. (REV 3-87)

7

6

5

4

3

2

1

APR 12 2001

awhiden 07:25:57

HOLE CHART					
SYMBOL	DESCRIPTION				QTY
A	Ø.098±.002 THRU NO PLATING		Ø.010	 A B C	1
B	Ø.098±.002 THRU NO PLATING		Ø.010	 A D C	1
C	Ø.098±.002 THRU NO PLATING		Ø.010	 A D E	1
UNMARKED	Ø.0236±.0020 THRU PLATED		Ø.010	 A D E	180
E	Ø.109±.003 THRU PLATED		Ø.010	 A D E	2
F	Ø.113±.002 THRU NO PLATING		Ø.010	 A D E	2
G	Ø.187±.003 THRU PLATED		Ø.014	 A D E	1

