

**Aerospace Electronic Systems**

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September 11, 2001  
5150-0109-1871

Federal Communications Commission  
Equipment Approval Services  
P.O. Box 358315  
Pittsburgh, PA 15251-5313

Subject: Type Certification for HP700 High Power Amplifier

Dear Sir or Madam:

In accordance with FCC Rules and Regulations Title 47, Part 2, Subpart J, Section 911, Honeywell Intl., Commercial Electronics Systems, hereby requests FCC Type Certification for the HP700 High Power Amplifier. The HP700 will be identified with FCC ID: GB8HP-700. This application accompanies FCC Form 731 as required by 47 CFR 2.1033(a).

The HP700 amplifier was developed as a low power alternative for use on the MCS-6000 and MCS-7000 SATCOM systems. The HP700 provides a maximum output power capability of 20 watts, whereas the standard HP600 amplifier provides 40 watts maximum. Both the MCS-6000 and MCS-7000 systems operate between 1626.5 – 1660.5 MHz and have emission type G1W.

A letter of "Intent to File for FCC Certification" for the HP700 has been sent to the applicable Federal Aviation Administration Office and included with this application as required by 47 CFR 87.147(d).

Enclosed with this application are the Technical Reports and other associated items that are required by 47 CFR 2.1033(c). This includes information concerning "FCC ID", operating characteristics, schematic diagrams and associated descriptions, and photographs. The enclosed photographs indicate the location of the FCC ID.

Your favorable consideration of this application will be appreciated.

Regards,



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	<u>Exhibit Type</u>	<u>Description</u>	<u>File Description</u>	<u>File Format</u>
12.	Schematics	Power Supply Assembly CCA, drawing 7516280-902, Rev. G Pages 15-21 <ul style="list-style-type: none"><li>- Schematic included in assembly drawing.</li></ul>	Power Supply Assembly CCA Drawing 7516280 dash 902 Rev G pages 15-21	Adobe PDF
13.	Schematics	HPA Main Processor Module CCA, drawing 7516265-902, Rev. K, Pages 1-16 <ul style="list-style-type: none"><li>- Schematic included in assembly drawing.</li></ul>	HPA Main Processor Module CCA Drawing 7516265 dash 902 Rev K Pages 1 to 16	Adobe PDF
14.	Schematics	HPA Main Processor Module CCA, drawing 7516265-902, Rev. K, Pages 17-32 <ul style="list-style-type: none"><li>- Schematic included in assembly drawing.</li></ul>	HPA Main Processor Module CCA Drawing 7516265 dash 902 Rev K Pages 17 to 32	Adobe PDF
15.	Schematics	HPA Main Processor Module associated Programmable CCA, drawing 7516189, Rev. L	Associated Programmable CCA drawing 7516189 Rev 1	Adobe PDF
16.	ID Label/Location Information	Plate, Identification, Hardware, Software,	Plate Identification Hardware Software Drawing 7021570 dash 26 Rev BF	Adobe PDF
17.	ID Label/Location Information	Plate, Identification, Hardware, Software, drawing 7021570-26, Rev BF, applicable change order 24515A	Change Order for plate identification 24515A	Adobe PDF

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ENCLOSURES

General

	<u>Exhibit Type</u>	<u>Description</u>	<u>File Description</u>	<u>File Format</u>
1.	N/A	Application form 731, dated March 21, 2001		---
2.	N/A	FEE Processing Form 159	FEE Processing Form 159	Adobe PDF
3.	Letter	Honeywell letter to FAA regarding Notification of Intent to File for FCC Type Certification, dated May 4, 2001, ref: 5150-0109-1872.	FAA Letter of Intent	Adobe PDF
4.	Operational Description	*Components Maintenance Manual for HP700 20 Watt High Power Amplifier, Publication No(s). A35-5111-025A1, dated 10 July 2000	Components Maintenance Manual for HP700 A35 5111 025A1 dated July 10 2000	Adobe PDF
5.	Operational Description	*Components Maintenance Manual for HP700 20 Watt High Power Amplifier, Publication No(s). A09-5111-025, dated 30 July 1999	Components Maintenance Manual for HP700 A09 5111 025 dated 30 July 1999	Adobe PDF

\*Component Maintenance Manual furnished in lieu of System Definition and Installation Manual

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**ENCLOSURES (continued)**

**HP700**

	<u>Exhibit Type</u>	<u>Description</u>	<u>File Description</u>	<u>File Format</u>
6.	Test Report	Integrated Test Specification for High Power Amplifier, drawing IT7516251, Revision L	Integrated Test Specification for high Power Amplifier Drawing IT7516251 Rev L	Adobe PDF
7.	Test Report	*FCC Type Acceptance Report for The HP-700 High Power Amplifier, Honeywell Part Number 7516251, drawing EB7516254, Rev. Original.	FCC Type Acceptance Report Drawing EB7516254 Rev Original	Adobe PDF
8.	ID Label/ Location Information	Top Assembly, drawing 7516251, Rev. K.	Top Assembly Drawing 7516251 Rev K	Adobe PDF
9.	Schematics	RF Amplifier CCA, drawing 7516270-902, Rev. A - Schematic included in the assembly drawing.	RF Amplifier Drawing 7516270 dash 902 Rev A	Adobe PDF
10.	Schematics	Power Supply Assembly CCA, drawing 7516280-902, Rev. G Pages 1-7 - Schematic included in assembly drawing.	Power Supply Assembly CCA Drawing 7516280 dash 902 Rev G pages 1 to 7	Adobe PDF
11.	Schematics	Power Supply Assembly CCA, drawing 7516280-902, Rev. G Pages 8-14 - Schematic included in assembly drawing.	Power Supply Assembly CCA Drawing 7516280 dash 902 Rev G pages 8 to 14	Adobe PDF

\*Photographs used to support this Type Certification are included in the FCC Type Acceptance Report.