

INCH-POUND

MIL-DTL-25708/3E
w/AMENDMENT 1
7 January 2013
SUPERSEDING
MIL-DTL-25708/3E
1 October 2012

DETAIL SPECIFICATION SHEET

ANTENNA, BLADE, AS-2686/A (HN CONNECTOR)

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the antenna described herein shall consist of this specification sheet and MIL-DTL-25708.

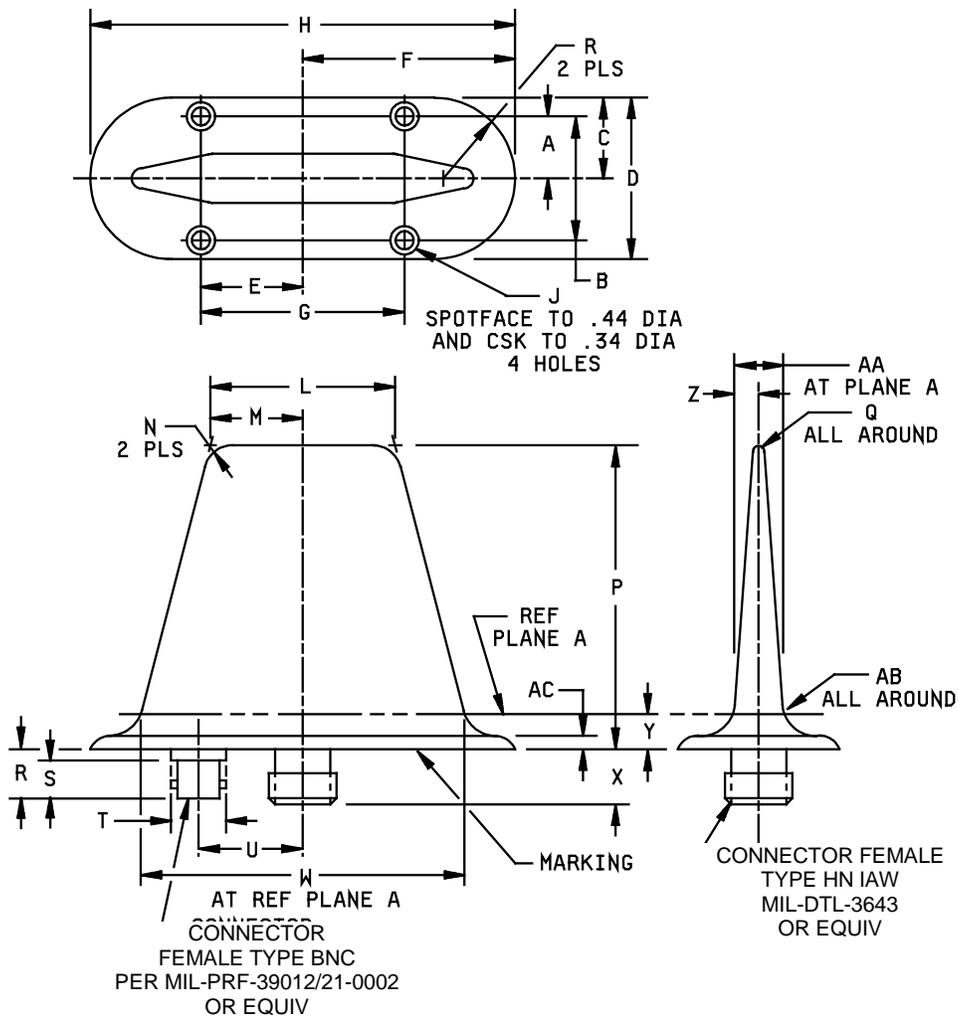


FIGURE 1. Outline drawing antenna AS-2686/A.

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Ltr	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
A	.615	.635	15.6	16.1
B	1.240	1.260	31.50	32.00
C	.85	.91	21.6	23.1
D	1.72	1.78	43.7	45.2
E	.92	.96	23.4	24.4
F	1.97	2.02	50.0	51.3
G	1.870	1.890	47.50	48.01
H	3.97	4.03	100.8	102.4
J	.179 DIA	.185 DIA	4.55 DIA	4.70 DIA
L	---	2.00	---	50.8
M	---	1.00	---	25.4
N	.31 R ref		7.9 R ref	
P	---	3.32	---	84.3
Q	.06 R	.09 R	1.5 R	2.3 R
R	---	.534	---	13.56
S	.414	---	10.51	---
T	---	.598	---	15.19
U	1.11	1.15	28.2	29.2
W	---	3.75	---	95.2
X	---	.60	---	15.2
Y	.35	---	8.9	---
Z	---	.266	---	6.76
AA	---	.532	---	13.51
AB	.50 R ref		13 R ref	
AC	.120	.150	3.05	3.81

NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. The base of the antenna is considered that part that rises from the bottom of the antenna mounting surface to the reference plane "A". Must be not less than .350 inch (8.89 mm). The cover is that part above reference plane "A".

FIGURE 1. Outline drawing antenna AS-2686/A - Continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1.

Materials:

Base: Aluminum alloy in accordance with ASTM B85/B85M, alloy SC84B.

Cover: Suitable material that will resist erosion of impinging particles at velocities up to Mach 2.

Temperature operating range: -55°C to 149°C.

Static load: 10.5 psig (100 pounds).

Frequency range: 0.960 to 1.220 GHz.

Impedance: 50 ohms nominal.

VSWR:

Antenna: 1.40:1 maximum from 0.960 to 1.220 GHz.
1.30:1 maximum from 1.000 to 1.100 GHz.

Sampling probe: 1.50:1 maximum from 0.960 to 1.220 GHz.

Power: 4 kW peak, 100 watts average.

Weight: 10 ounces maximum.

Part or Identifying Number (PIN): M25708/3-03.

Data list: A data list shall accompany each antenna with VSWR measurement values made at .960, 1.100, and 1.200 GHz.

Intended use: Intended for use on T-38 and F-5 aircraft.

Referenced documents. In addition to MIL-DTL-25708, this document references the following

MIL-PRF-39012/21

MIL-DTL-3643

ASTM-B85/B85M

The margins of this specification sheet are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Custodians:

Army - CR
Navy - AS
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5985-2013-008)

Review activities:

Army - AV
Air Force - 99

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