

INCH-POUND

MIL-DTL-25708/2D  
w/AMENDMENT1  
7 January 2013  
SUPERSEDING  
MIL-DTL-25708/2D  
1 October 2012

DETAIL SPECIFICATION SHEET

ANTENNA, BLADE, AS-2685/A

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.

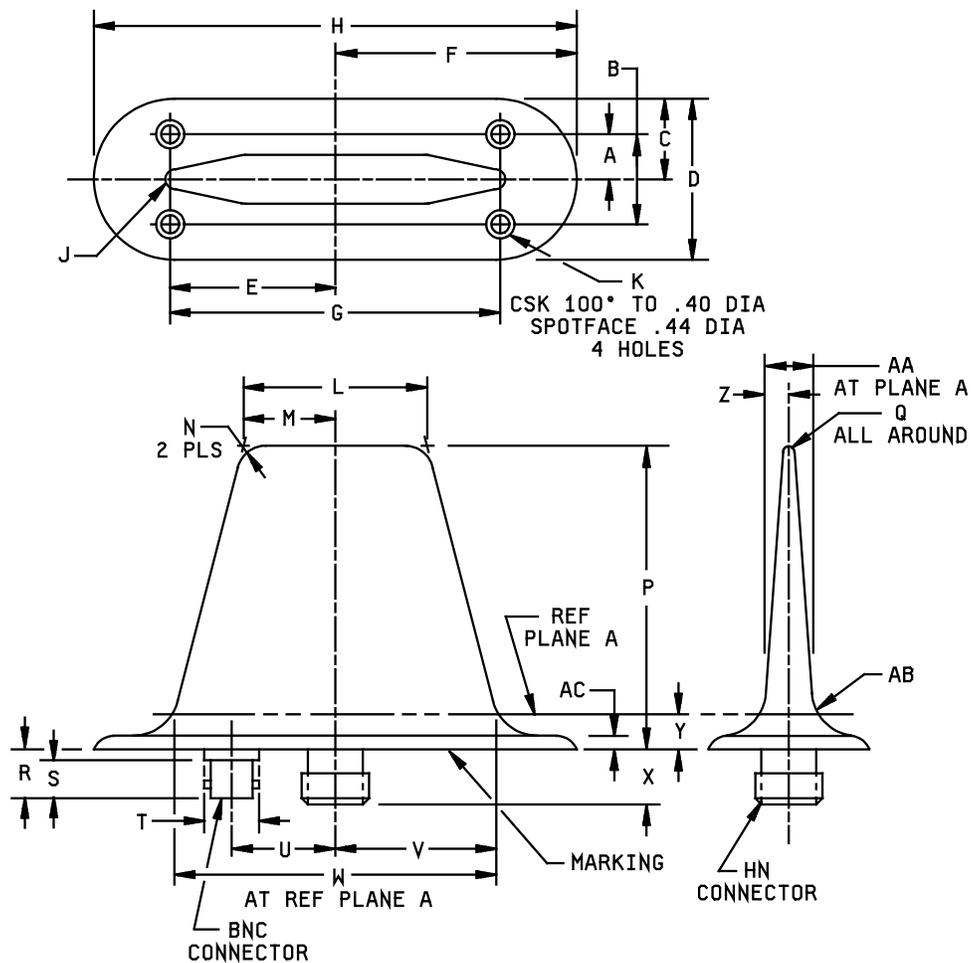


FIGURE 1. Outline drawing antenna AS-2685/A.

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Ltr	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
A	.480	.500	12.19	12.70
B	.970	.990	24.64	25.15
C	.84	.90	21.3	22.9
D	1.72	1.78	43.7	45.2
E	1.78	1.82	45.2	46.2
F	2.59	2.65	65.8	67.3
G	3.590	3.610	91.19	91.69
H	5.22	5.28	132.6	134.1
J	.06 R ref		1.5 R ref	
K	.190 DIA	.202 DIA	4.83 DIA	5.13 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	---	10.52	---
T	---	.598	---	15.19
U	1.11	1.15	28.2	29.2
V	---	1.75	---	44.4
W	---	3.75	---	95.25
X	---	.60	---	15.2
Y	.35	---	8.9	---
Z	---	.22	---	5.6
AA	---	.44	---	11.2
AB	.50 R ref		12.7 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 upon 1 inch = 25.4 mm.
3. Unless otherwise specified tolerances on two place decimals are  $\pm .01$  inch and tolerances on three place decimals are  $\pm .005$  inch.

FIGURE 1. Outline drawing antenna AS-2685/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: Metal or other suitable material.

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

Static load: 10.5 psig (100 pounds).

Frequency: 960 to 1,220 MHz.

Impedance: 50 ohms nominal.

VSWR:

Antenna: 1.4:1 maximum from 960 to 1,220 MHz.  
1.3:1 maximum from 1,000 to 1,100 MHz.

Sampling probe: 1.5:1 maximum from 960 to 1,220 MHz.

Power: 4 kW peak, 100 watts average.

Weight: 8 ounces.

Part or Identifying Number (PIN): M25708/2-02.

Data list: A data list shall accompany each antenna with VSWR measurement.  
Values made at 960, 1,100, and 1,200 MHz.

Intended for use on F-4 aircraft.

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

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