

INCH-POUND

MIL-DTL-25707/2C
20 January 2015
SUPERSEDING
MIL-DTL-25707/2B
w/AMENDMENT 1
31 March 2008

DETAIL SPECIFICATION SHEET

ANTENNA, FLUSH MOUNT (RADIUS OF CURVATURE - 14.90 INCHES)

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

Requirements for acquiring the antenna described herein shall consist of this document and MIL-DTL-25707.

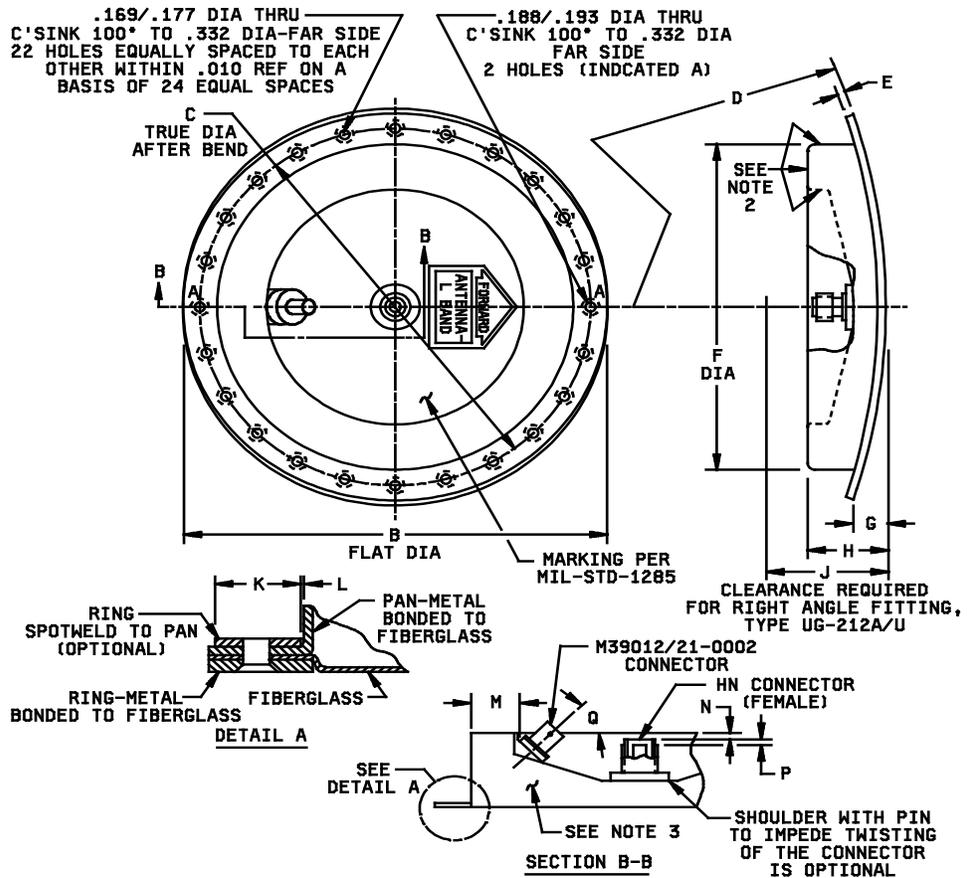


FIGURE 1. Outline drawing antenna - L band.



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Letter	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
B	8.235	8.265	209.17	209.93
C	7.495	7.505	190.37	190.63
D	14.84 RAD	14.96 RAD	376.94 RAD	379.98 RAD
E	.155	.180	3.94	4.57
F	6.78	6.84	172.21	173.74
G	---	.583 REF	---	14.81 REF
H	---	1.69	---	42.93
J	2.66	2.72	67.56	69.09
K	.60	.72	15.24	18.29
L	.00	.12	0.00	3.05
M	.91	1.03	23.11	26.16
N	.07	.13	1.78	3.30
P	---	.160 REF	---	4.06 REF
Q	44°	46°	44°	46°

NOTES:

1. Dimensions are in inches.
2. Finish: Anodize ring in accordance with MIL-A-8625. Chromate pan flange; paint pan body with flat white polyurethane enamel; radome is to be flat black.
3. Fill antenna cavity with polyurethane foam, or equivalent, density as necessary to maintain structural rigidity, radiation pattern as specified, and compliance to environmental requirements.
4. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
5. Unless otherwise specified, tolerances are $\pm .015$ inch (± 0.38 mm) for three place decimals and $\pm .03$ inch (± 0.76 mm) for two place decimals.

REQUIREMENTS:

Dimensions and construction: See figure 1.

Temperature operating range: -55°F to +205°F.

Frequency: 960 MHz to 1,220 MHz.

Impedance: 50 ohms, nominal.

VSWR of antenna: 960 MHz to 1,220 MHz, 1.8:1, maximum.
1,000 MHz to 1,100 MHz, 1.6:1, maximum.

VSWR of sampling probe: 960 MHz to 1,220 MHz, 1.5:1, maximum.

Probe attenuation: 17.5 dB \pm 1.5 dB over frequency band 960 MHz to 1,220 MHz.

Power: 4 kW, peak; 100 watts, average.

Weight: Less than or equal to 17 ounces.

Part or Identifying Number (PIN): M25707/2-02.

Data list: The measured data for VSWR and attenuation shall accompany each antenna when required by contract.

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Referenced documents. In addition to MIL-DTL-25707 this specification sheet references the following
MIL-STD-1285
MIL-A-8625

The margins of this specification sheet are marked with vertical lines to indicate where modifications from this revision were made. 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.

Custodian:
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NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil/>.