

MILITARY SPECIFICATION SHEET

ANTENNA, FLUSH MOUNT (RADIUS OF CURVATURE - 66.50 INCHES)

This specification sheet is approved for use by the Engineering and Technical Support Division, Department of the Air Force (AFLC/LOIE), and is available for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the antenna described herein shall consist of this document and the latest issue of Specification MIL-A-25707.

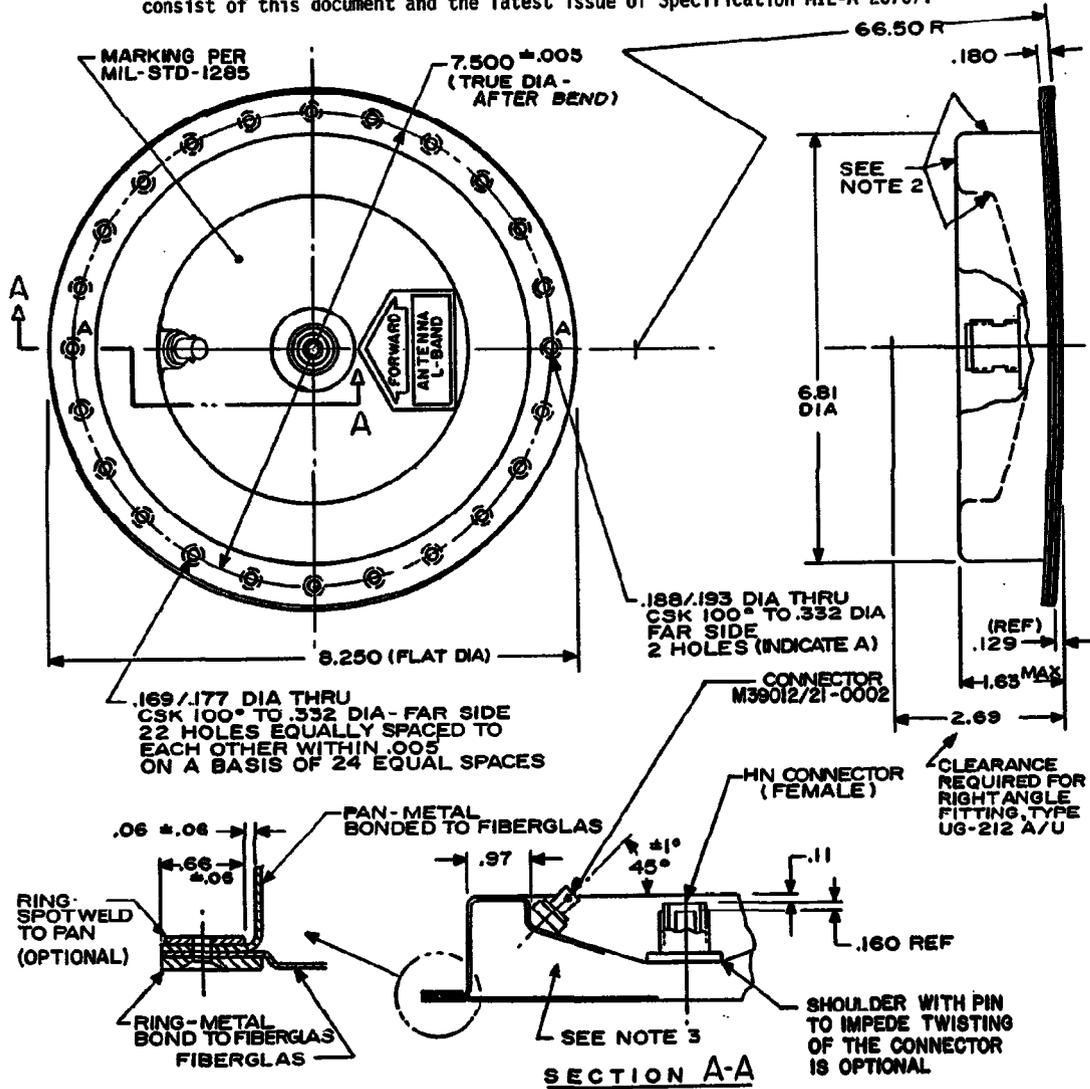


FIGURE 1 Outline drawing Antenna L Band

INCHES	MM	INCHES	MM	INCHES	MM
.005	.13	.177	4.50	1.63	41.4
.06	1.5	.180	4.57	2.69	68.3
.11	2.8	.188	4.78	6.81	173.0
.129	3.28	.193	4.90	7.500	190.50
.160	4.06	.332	8.43	8.250	209.55
.169	4.29	.66	16.8	66.50	1689.1
		.97	24.6		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Unless otherwise specified, tolerances are $\pm .015$ (.38 mm) for three place decimals and $\pm .03$ (.76 mm) for two place decimals.
4. Finish: Anodize in accordance with MIL-A-8625, paint with off white epoxy primer No. W-2248 or W-2249 from Randolph Product Co. or equivalent.
5. Fill antenna cavity with polyurethane foam, density as necessary to maintain structural rigidity, radiation pattern as specified and compliance to environmental requirements.

REQUIREMENTS:

Dimensions and construction: See figure 1

Temperature operating range: -55° to 205°C

Frequency: 960 to 1,220 MHz

Impedance: 50 ohms; nominal

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

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

Power: 4 kW, peak; 100 watts, average

Weight: Less than or equal to 16 ounces

Part number: M25707/3-03

Data list: The measured data for VSWR, attenuation and impedance, shall accompany each antenna.

Custodian:
 Air Force - 85

Preparing activity:
 Air Force - 85

Review activities:
 Air Force - 11, 99

(Project 5985-F463-3)

User activities:
 Air Force -