

17 August 1962
Cog Service: USN

FSN:

ANTENNA ASSEMBLY AS-1018/URC
Functional Class:

USA

USN

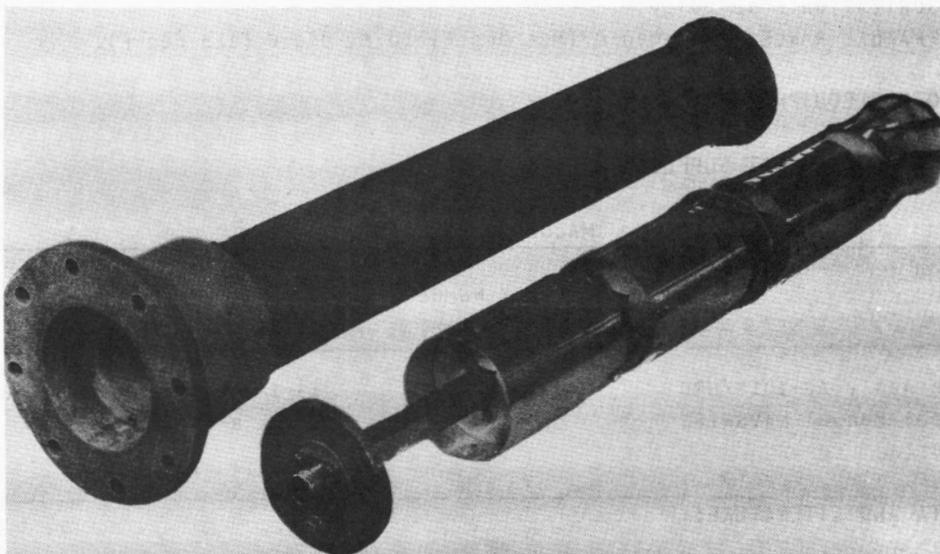
USAF

TYPE CLASS:

Used by

Used by

MANUFACTURER'S NAME/CODE NUMBER: CHU Associates Inc., (04953).



Antenna Assembly AS-1018/URC

FUNCTIONAL DESCRIPTION:

The Antenna Assembly AS-1018/URC is a broad-band, Ultra-High-Frequency (UHF), communications antenna used to transmit rf energy in the frequency range of 225 to 400 megacycles (MC). It provides essentially hemispherical radiation coverage with a horizontal radiation pattern omnidirectional to within 1.0 decibels (DB). The antenna is vertically polarized, and has lower half power points on or below the horizon. The vertical upward propagation, needed to fill the cone of silence, is horizontal polarized. The line on the mast cap of the AS-1018/URC indicates the direction of this horizontal polarization. The AS-1018/URC consists basically of the internal transmission line, the antenna (a two-element colinear dipole array), and the polyester fiberglass mast which completely encloses them.

No field changes in effect at time of preparation (5 June 1962).

AS-1018/URC ANTENNA ASSEMBLY

TECHNICAL CHARACTERISTICS:

FREQUENCY RANGE: 225 to 400 mc.
POWER RATING: 2 kw average.
POLARIZATION: vertically polarized.
GAIN: Porm 5 db above an isotropic source.
INPUT IMPEDANCE: 50 ohms.
VOLTAGE STANDING WAVE RATIO: 2:1 max (VSWR).
CIRCULARITY: Omnidirectional horizontally to within porm 1.0 db.
TILT OF PATTERN: Antenna beam is tilted upward to place lower half power point on or below horizon.
WIND LOAD: 120 knots.
MAXIMUM PRESSURIZATION: 15 psig.
AMBIENT TEMPERATURE RANGE: M32 deg C (M26 deg F) to 52 deg C (125 deg F).

RELATION TO OTHER EQUIPMENT: None.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

MAJOR COMPONENTS

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Antenna Ass'y AS-1018/URC		13-1/2 x 13-1/2 x 72-3/8	50
2	Technical Manual NAVSHIPS 94041(A)		1/4 x 8-1/2 x 11	

REFERENCE DATA AND LITERATURE:

NAVSHIPS 94041(A): Technical Manual for Antenna Assembly AS-1018/URC.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: None used.

CRYSTALS: None used.

SEMI-CONDUCTORS: None used.

SHIPPING DATA

PKGS	VOLUME (CU FT)	WEIGHT (LBS)
1	11.6	118

PROCUREMENT DATA

PROCURING SERVICE: USN
SPEC &/OR DWG:

DESIGN COG: USN, BuShips

CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. UNIT COST
CHU Associates Inc.	Littleton, Mass.	N0bsr-85111, 11 May 1961	