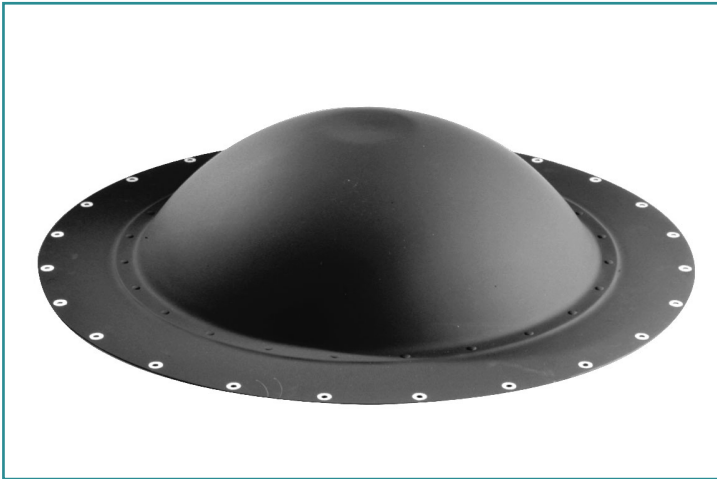


DM C99-2



DM C99-4



The DM C99 Series (Military Nomenclature AS-3439/G) has been designed to maintain UHF satellite communication links during ground, helicopter, shipboard, or mobile operations where the satellite intercept angle is constantly varying or unknown. Prior to the development of the DM C-99-Series of antennas, this problem was solved by use of sophisticated positioning systems to point the antenna at the satellite.

The DM C99-Series of antennas present a unique, low-silhouette configuration which produces a very broad beam radiation pattern with minimal gain variation over the entire upper hemisphere. Right-hand circular polarization is maintained throughout the hemisphere.

Since the gain of the antenna is relatively independent of the satellite intercept angle, the need for high-cost positioning systems has been eliminated.

The DM C99-Series features other design parameters which complement its deployment. These units are constructed of lightweight materials for ease of handling and mounting, and are provided with lightning protection. The DM C99-2 meets the full requirements of the MSC-64 System, for example, while the DM C99-4 meets rigid helicopter vibration and acoustic noise standards. The DM C99-5 is streamlined for use on trains, while the DM C99-11 incorporates features for helicopter mounting. The DM C99-15 and -16 Series are designed for shipboard deployments.

All configurations require the use of a load termination.

SATCOM ANTENNA

DM C99 SERIES
AIRBORNE/GROUND/
SHIPBOARD/
MOBILE SATELLITE
COMMUNICATION ANTENNA

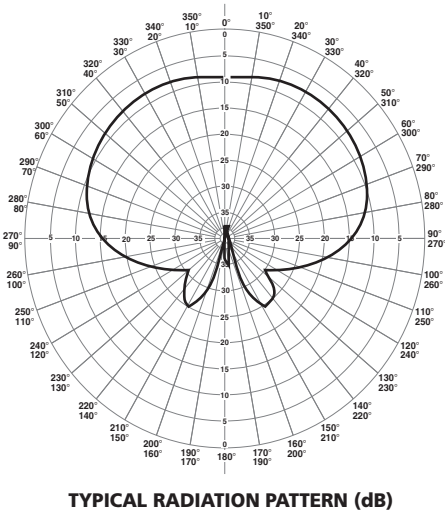
SPECIFICATIONS

ELECTRICAL

Frequency RangeSee Table
VSWR1.5:1
PolarizationRight-Hand Circular
Power.....See Table
Impedance50 Ohms Nominal
Radiation Patterns ...Hemispheric (See Chart)
Gain+2 dB Nominal
Relative to circular isotropic

MECHANICAL

ConnectorSee Table
WeightSee Table
Lightning ProtectionMIL-B-5087
QualificationMIL-STD-810C
Military Nomenclature
DM C99-2AS-3439/G
Available OptionLoad Termination
DM 1200018-001.....N Connector
DM 1200018-002..... TNC Connector



PART NO.	FREQUENCY RANGE (MHz)	CONNECTOR (FEMALE) INPUT	LOAD	POWER W CW	FINISH	LOAD TERMINATION	WEIGHT (lbs)	DEPLOYMENT
DM C99-2	225 – 400	N	TNC	200	OLIVE DRAB	-002	13 (5.89)	SHELTERS
DM C99-4	244 – 318	N	N	200	BLACK	-001	7 (3.17)	HELICOPTER
DM C99-5	225 – 400	N	TNC	200	OLIVE DRAB	-002	13 (5.89)	TRAINS
DM C99-6	244 – 318	N	N	200	WHITE	-001	7 (3.17)	HELICOPTER
DM C99-11	225 – 400	N	TNC	200	OLIVE DRAB	-002	15.5 (7.03)	HELICOPTER
DM C99-15-1	244 – 318	N	N	200	BLACK	-001	8.4 (3.81)	SHIPBOARD
DM C99-16-1	225 – 400	N	TNC	200	BLACK	-002	20 (9.07)	SHIPBOARD

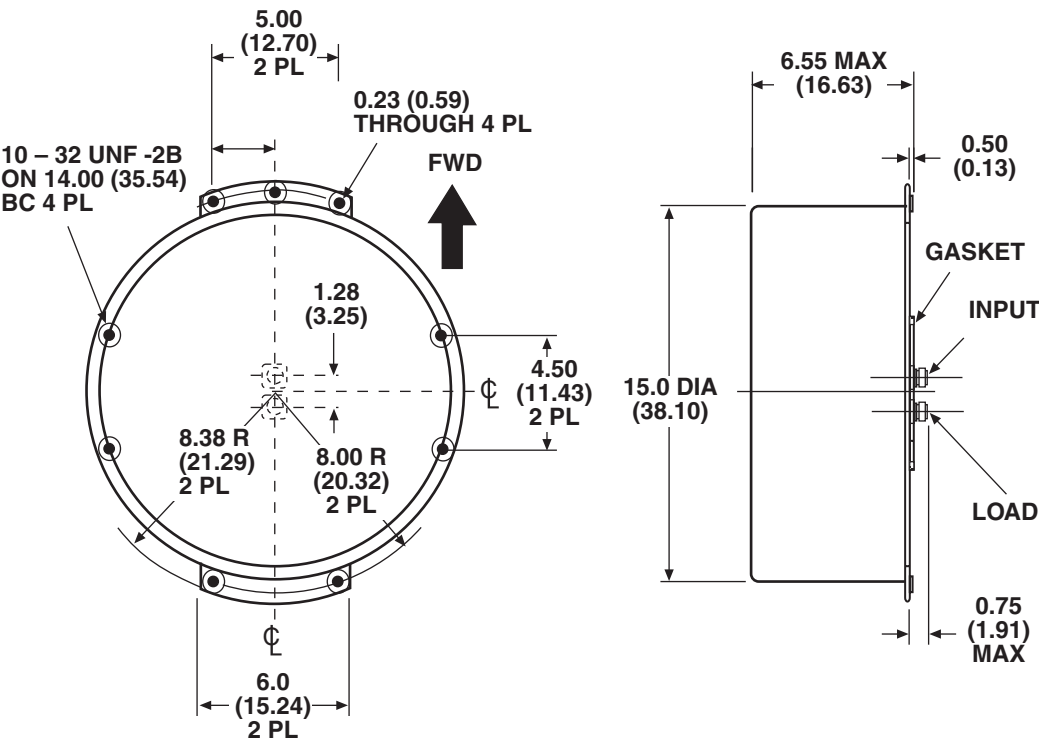
SATCOM ANTENNA

DM C99 SERIES AIRBORNE/GROUND/SHIPBOARD/ MOBILE SATELLITE COMMUNICATION ANTENNA

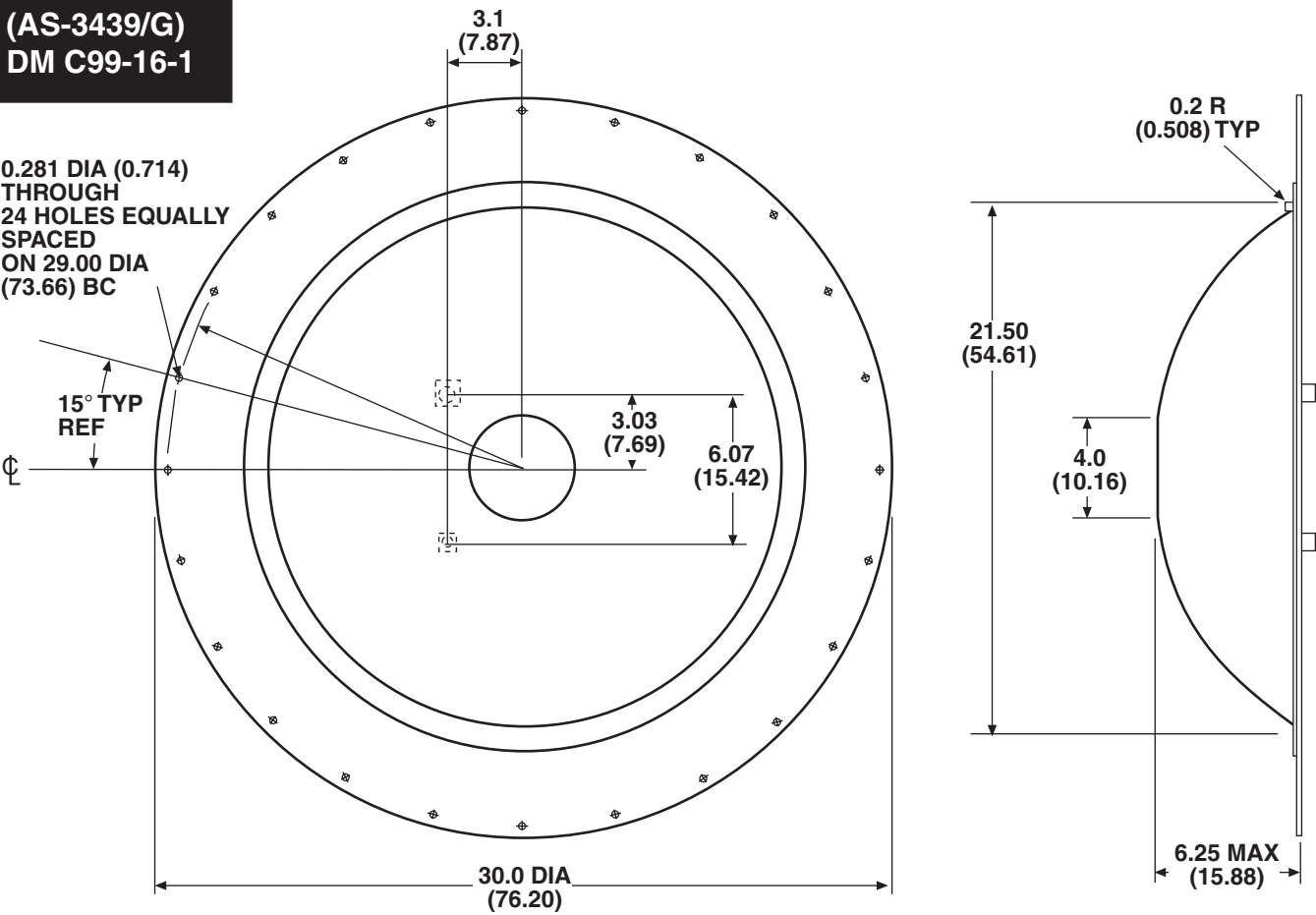
OUTLINE DIMENSIONS

Inches (Centimeters)

DM C99-4
DM C99-6
DM C99-15-1



DM C99-2
(AS-3439/G)
DM C99-16-1



DM C99-5
DM C99-11

