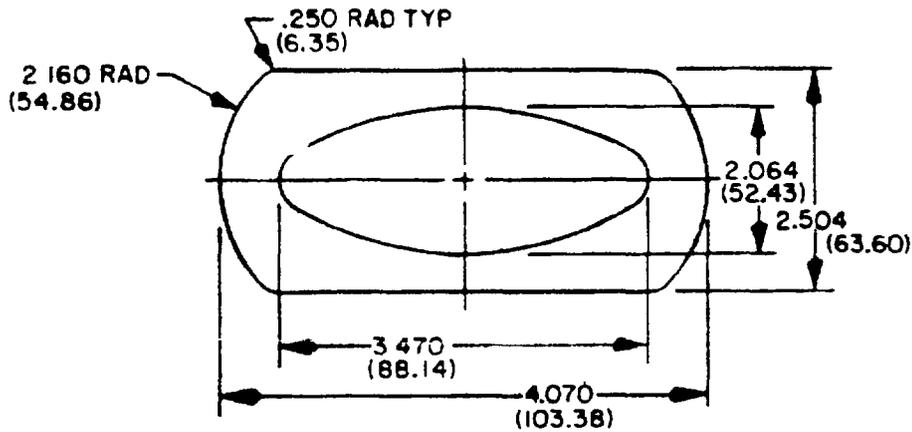


MILITARY SPECIFICATION SHEET
WAVEGUIDES, ELLIPTICAL, SEMIRIGID

This specification is approved for use by all Departments and Agencies of the Department of Defense

The complete requirements for procuring the waveguides described herein shall consist of this document and the latest issue of specification MIL-W-28839



NOTES

- 1 Dimensions are in inches
- 2 Metric equivalents are in parentheses
- 3 Unless otherwise specified, tolerance is $\pm .017$ (40 mm)
- 4 Metric equivalents are given for general information only, and are based upon 1.00 inch = 25.4 mm

FIGURE 1 Waveguide

M11-W-28839/1

REQUIREMENTS

Design and construction - See figure 1

Material - Aluminum alloy 1060, 100, 6061, or 6063
frequency range - 27 - 30 GHz

VSWR - 1.07, maximum

Attenuation - .011 dB per foot

axial twist - 0 degrees per foot

Bending radius (minimum)

V plane - 20 inches (51 cm)

H plane - 42 inches (107 cm).

Surface roughness - 63 microinches

Military part number - M28839/-01- (since digit 1 indicates the nominal length of the waveguide, -01 identifies a length of 30 feet)

Cross reference data

<u>Design</u> <u>number</u>	<u>Al</u> <u>nominal size</u>	<u>Manufacturer's</u> <u>code</u>	<u>Commercial type</u>	<u>ISN</u>
01-xxx	R0-38 (1)	4001	EM457-10-1	0187-01-01-584-

Custodians

Army - EI

Navy - FC

Air Force - 67

Review activities

Army - MI

Navy - OS, SH

Air Force - 11, 17, 90

DLA - ES

User activities

Army -

Navy - SH

Air Force -

Preparing activity

Navy - rC

Agent

DLA - ES

(Project 5985-0861-1)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

OMB Approval
No. 22 R255

INSTRUCTIONS The purpose of this form is to solicit beneficial comments which will help achieve procurement of suitable products at reasonable cost and minimum delay, or will otherwise enhance use of the document. DoD contractors, government activities, or manufacturers/vendors who are prospective suppliers of the product are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements. Attach any pertinent data which may be of use in improving this document. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity.

DOCUMENT IDENTIFIER AND TITLE

NAME OF ORGANIZATION AND ADDRESS

CONTRACT NUMBER

MATERIAL PROCURED UNDER A

DIRECT GOVERNMENT CONTRACT SUBCONTRACT

1. HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?

A. GIVE EXAMPLES IN CLEAR WORDING

B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES

2. COMMENTS ON ANY DOCUMENT REQUIREMENT CONSIDERED TOO RIGID

3. IS THE DOCUMENT RESTRICTIVE?

YES NO (If "Yes" in what way?)

4. REMARKS

SUBMITTED BY (Printed or typed name and address - Optional)

TELEPHONE NO.

DATE