| ZONE | REV | REVISIONS DESCRIPTION | DATE | APPROVED |
|---|---|---|---|---|
| | A | INITIAL RELEASE<br>ECP 1062<br>ECO A10136 (NA) | 230816 | S. HAYES |

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

NOTES - UNLESS OTHERWISE SPECIFIED:

1. MATERIAL: WAVEGUIDE PER MIL-W-85, FLANGES PER MIL-F-3922
2. WORKMANSHIP PER MIL-HDBK-454 GUIDELINE 9.
3. FINISH:
   - 3.1. CHEMICAL FILM TREATMENT PER MIL-C-5541, CLASS 3.
   - 3.2. PAINT PER AMS-STD-595, COLOR 17925, SEMI GLOSS.
   - 3.3. PRIMER PER MIL-DTL-53022CL, 2 COATS. TOP COAT PER MIL-PRF-22750, 2 COATS.
   - 3.4. OMIT PAINT FROM ALL HOLES, FLANGE FACES (MATING SURFACES) AND INTERNAL SURFACES.
4. BRAZE PER MIL-HDBK-454 GUIDELINE 59, QUALITY PER MIL-B-7883, GRADE B. ALTERNATIVELY, WELDS PER MIL-HDBK-454 GUIDELINE 13.
5. FLANGES SHALL BE SQUARE TO THE INNER SURFACE OF THE WAVEGUIDE TO WITHIN .005".
6. UNIT WITH END SEALS MUST WITHSTAND MAXIMUM DROP IN AIR PRESSURE OF 1 PSI PER 6 HOURS LEAKAGE FROM AN INITIAL PRESSURE OF 8 PSIG AFTER REMOVAL OF SOURCE OF AIR PRESSURE.
7. THE PART NUMBER IS THE DRAWING NUMBER SUFFIXED WITH THE APPLICABLE DASH NUMBER AS SHOWN IN TABLE A.
8. SHIPPING CAPS TO BE FURNISHED WITH WAVEGUIDE ASSEMBLY.
9. ELECTRICAL CHARACTERISTICS:
   - 9.1. FREQUENCY: 2.7 TO 3.0 GHZ
   - 9.2. VSWR: 1.10 MAX
   - 9.3. INSERTION LOSS: 0.10 DB MAX
10. POWER REQUIREMENTS:
    - 10.1. 1.1 MW PEAK POWER BETWEEN 2.7 TO 3.0 GHZ AT 0 PSIG AND DRY AIR, NO ARCING PERMITTED.
    - 10.2. 2.2 KW AVERAGE POWER WITH MAXIMUM DUTY CYCLE OF 0.2% BETWEEN 2.7 AND 3.0 GHZ, 0 PSIG AND DRY AIR, NO ARCING PERMITTED.
11. SUGGESTED SOURCE(S) OF SUPPLY (MANUFACTURER(S))
    VENDOR: TBD (CAGE CODE TBD)
    VENDOR CITY: TBD

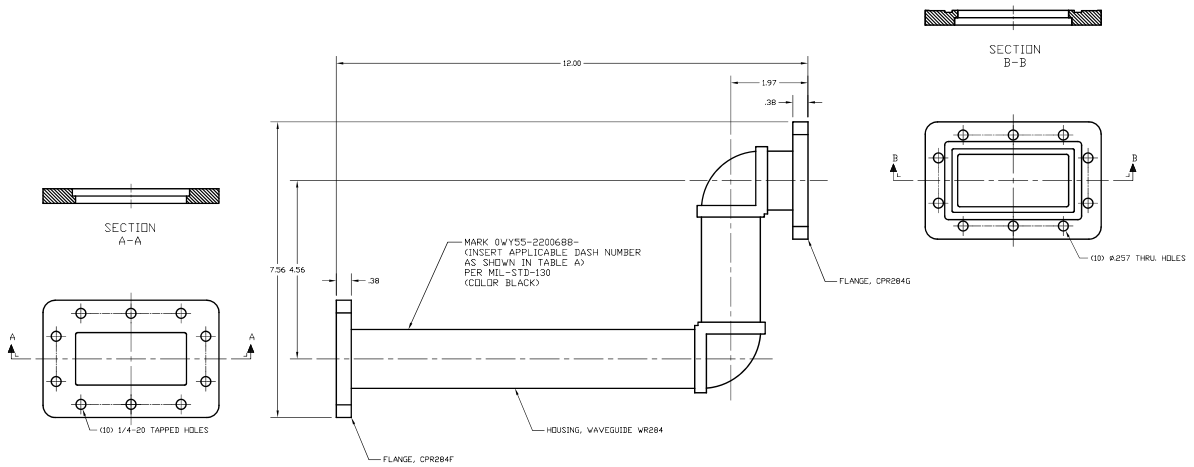


TABLE A

| DASH NO. | APPLICABLE INFORMATION |
|---|---|
| 201 | SHEET 1 |

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VENDOR ITEM CONTROL DRAWING

| | | | |
|---|---|---|---|
| MATERIAL | INTERPRET DRAWING IAW ASME Y14.100 | PROJECT WSR-88D | |
| | INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M | APPROVALS / DATE | DOC/DOD/DOT WSR-88D RADAR OPERATIONS CENTER 1313 HALLEY CIRCLE NORMAN OKLAHOMA 73069-8480 |
| | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: MILLIMETERS 1 PL ±.5 2 PL ±.25; DECIMALS 2 PL ±.02 3 PL ±.010 | DWN C. STILLWELL 230816 | WAVEGUIDE ASSEMBLY, RF PALLET, S BEND, 12.1 X 7.6 INCH |
| | | CHK J. NORAN 230816 | |
| | | ENGR S. HAYES 230816 | |
| | | QA | |
| THIRD ANGLE PROJECTION | ANGLES ±2° DO NOT SCALE DRAWING | LOG L. ALBERTS 230816 | |
| 230141 NEXRAD | ECP 1062 | DOC M. KARBOVSKI 230816 | SIZE E CAGE CODE 0WY55 DWG NO. 2200688 REV A |
| NEXT ASSY USED ON | | CM | SCALE 1/1 SHEET 1 OF 1 |
| APPLICATION | | RDC | |

DWG NO. 2200688 SH 1

CM FORM 2990008

# 2200688-201

**Revision** • A A10136
**Part** • WAVEGUIDE ASSEMBLY, RF PALLET, DUAL E-BEND, 12.1 X 7.6 INCH ( 2A5WG1, 2A5WG7 ) •
Effective From: **08/15/2023 10:00:00 PM PDT** to
**...**

# Production

Unincorporated

## Title Block

| | |
|---|---|
| **Lifecycle Phase:** | Production |
| **Nomenclature:** | WAVEGUIDE ASSEMBLY, RF PALLET, DUAL E-BEND, 12.1 X 7.6 INCH ( 2A5WG1, 2A5WG7 ) |
| **Size:** | J |
| **Part Type:** | Part |
| **Rev Release Date:** | 08/24/2023 08:26:07 AM PDT |
| **Effectivity Date:** | 08/15/2023 10:00:00 PM PDT |
| **Base Model:** | |
| **Number:** | 2200688-201 |
| **Rev:** | A A10136 |
| **Product Line(s):** | OSF |
| **Part Category:** | Vendor Item Control Document |
| **Rev Incorp Date:** | |

## MFG Info

| | |
|---|---|
| **CAGE CODE:** | 0WY55 |
| **DESCRIPTION:** | |
| **MFR 1 CAGE:** | 6X307 |
| **MANUFACTURER 2:** | |
| **MFR 2 PART NO.:** | |
| **MFR 3 CAGE:** | |
| **UOM:** | EACH |
| **CABLE LENGTH:** | |
| **CABLE MARKER - TO:** | |
| **DRAWING NO.:** | 2200688 |
| **MANUFACTURER 1:** | FERRITE CO. |
| **MFR 1 PART NO.:** | SWG-39-4-0 |
| **MFR 2 CAGE:** | |
| **MANUFACTURER 3:** | |
| **MFR 3 PART NO.:** | |
| **EAR:** | |
| **CABLE MARKER - FROM:** | |
| **NOTES:** | |