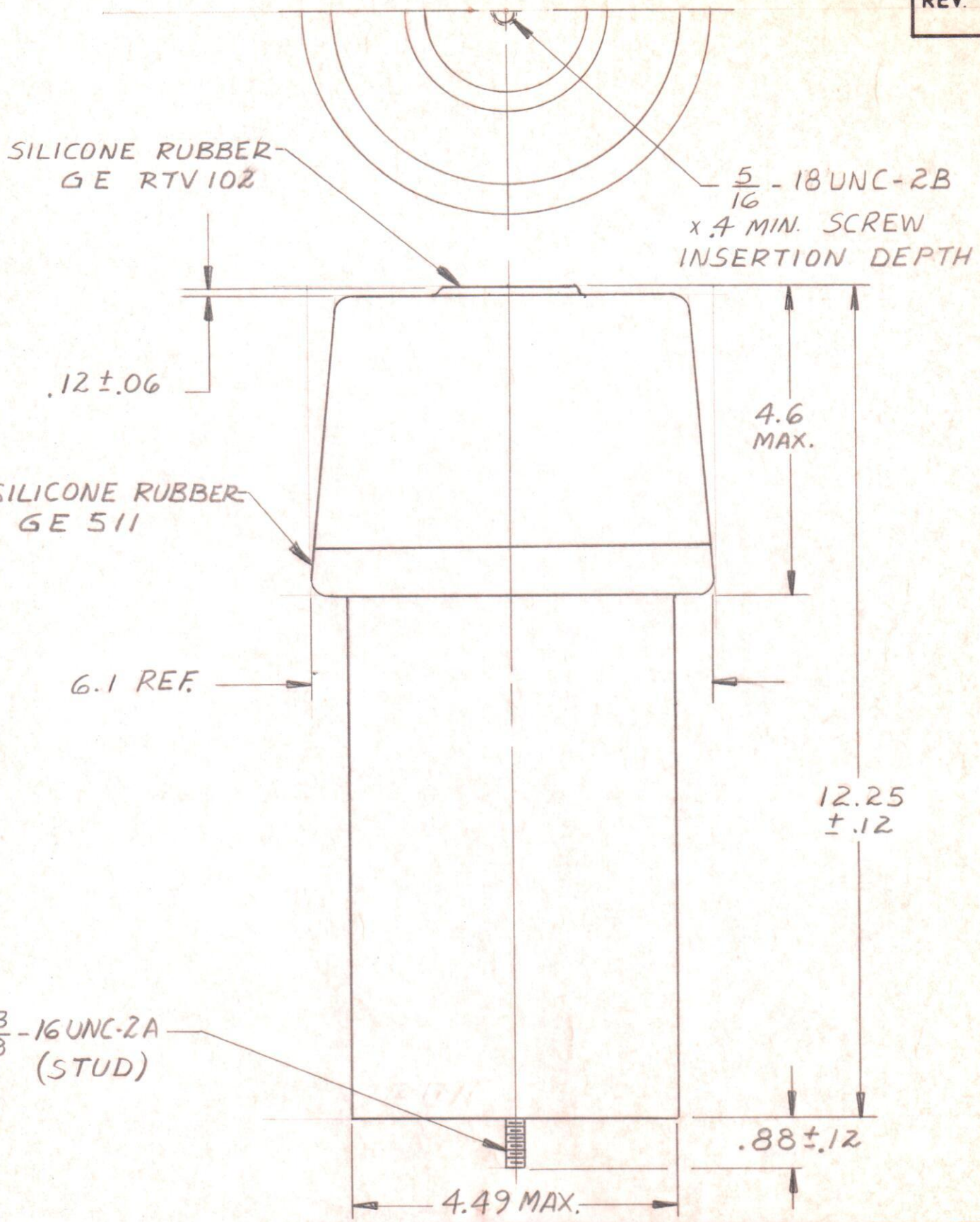
| REVISIONS | | | |
|---|---|---|---|
| LTR | DESCRIPTION | DATE | APPROVED |
| A | SHT. 2: 12.25 W. 13.03, 4.49 MAX. W. 4.33<br>SHT. 3: 311 W. 331, 114 MAX W. 109.98 TY | 5-1-78 | MAW |

| | | |
|---|---|---|
| ORIGINAL DATE OF DRAWING 12-17-77 | ITT JENNINGS | |
| DRAFTSMAN Tony M. | 970 McLAUGHLIN AVE. | SAN JOSE, CALIF., 95116 |
| CHECKER | DRAWING TITLE CAPACITOR- FIXED CERAMIC DIELECTRIC 4000 pF | |
| ENGINEERING APPROVAL MAW | | |
| SUBMITTED | SIZE A | CODE IDENT. NO. 73905 |
| APPROVAL JEB 12-20-77 | DRAWING NO. DD 0945-1 | |
| | SHEET 1 OF 5 | |

12IF9-73

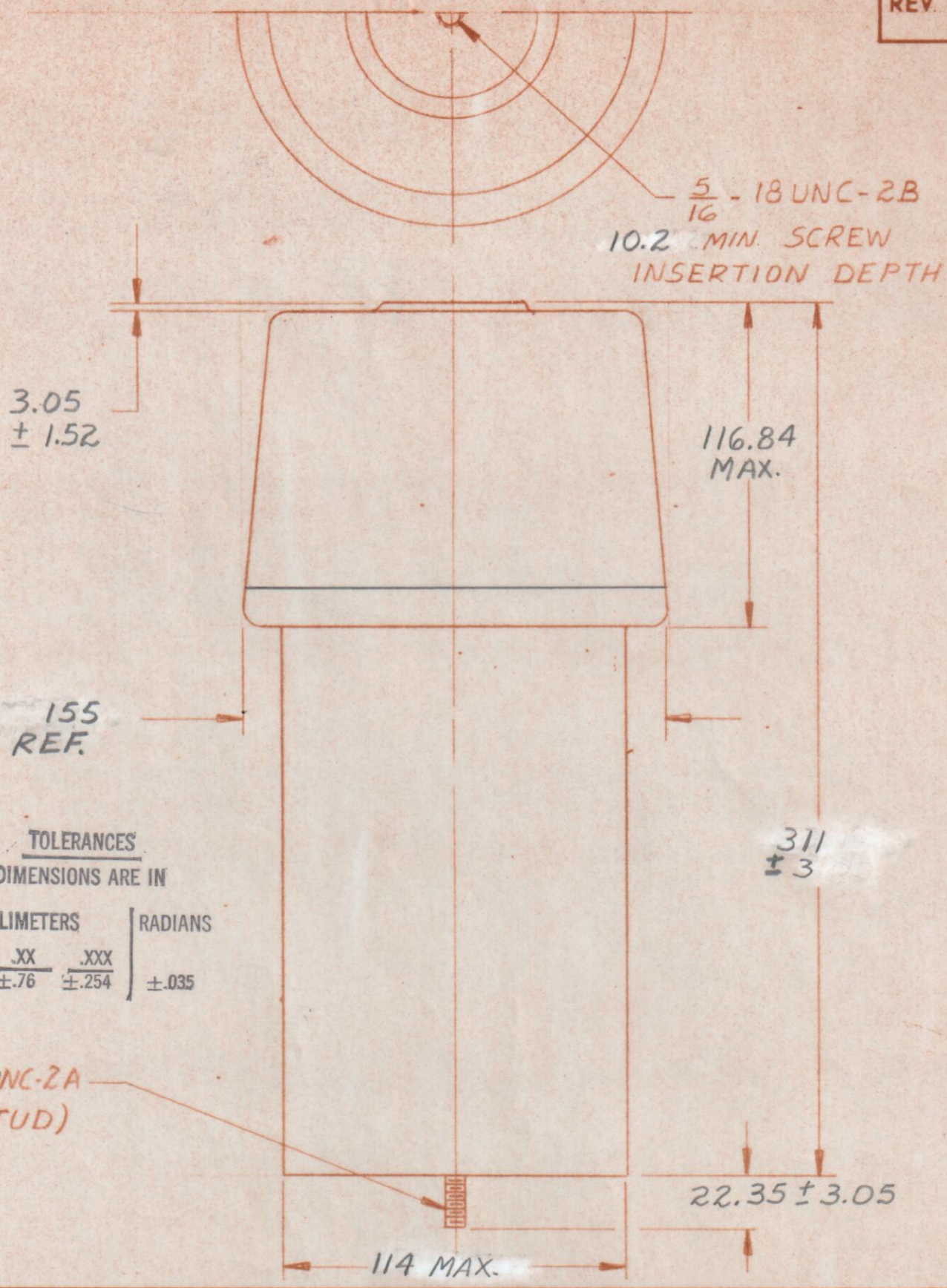
REV. A




| | | | |
|---|---|---|---|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ON DECIMALS X ± .1 XX ± .03 XXX ± .010 \| ANGLES ± 2° | CODE IDENT. NO. 73905 | SIZE A | DRAWING NO. DD 0945-1 |
| | SCALE 1/2 | UNIT WEIGHT | SHEET 2 OF 5 |

0675B07-73

REV. A




TOLERANCES

DIMENSIONS ARE IN

| MILLIMETERS | | | RADIANS |
|---|---|---|---|
| .X | .XX | .XXX | |
| ±2.5 | ±.76 | ±.254 | ±.035 |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

~~TOLERANCE ON~~

| ~~DECIMALS~~ | | ~~ANGLES~~ |
|---|---|---|
| X ± .1 | XX ± .03 | XXX ± .010 | ± 2° |

| CODE IDENT. NO. | SIZE | DRAWING NO. |
|---|---|---|
| 73905 | A | DD 0945-1 |
| SCALE 1/2 | UNIT WEIGHT | SHEET 3 OF 5 |

0675B07-73

REV. A

NOTES:

1.0 DESCRIPTION:

Capacitor, Fixed, Ceramic Dielectric

All measurements at 25°C unless otherwise specified

2.0 ELECTRICAL CHARACTERISTICS:

2.1 Capacitance: 4000 pF ± 20% when measured at 1 KHz

2.2 Dielectric strength (Test Voltage): 48 KVDC

2.3 Rated DC working Voltage: 32 KVDC

2.4 Dissipation factor:.10% max. at 1 KHz

2.5 Insulation Resistance: 10,000 meg ohms minimum measurement shall be made after a 1 minute charge at 100 VDC through a resistor of 1 meg ohm.

2.6 Nominal Temperature Coefficient: N750 ppm/°C over the temperature range of -55°C to +85°C.

3.0 MECHANICAL CHARACTERISTICS:

3.1 Dimensions: As shown on sheet 2 & 3

3.2 Dielectric: Ceramic

4.0 ENVIRONEMNTAL REQUIREMENTS:

4.1 Temperature Range: -55 to +85°C

4.2 Environmental Tests: Capacitors shall be tested to the following environmental tests as specified in MIL-C-20

4.2.1 Vibration (high frequency)

4.2.2 Moisture Resistance

4.2.3 Temperature and Immersion Cycling

4.2.4 Barometric Pressure (flashover), 30,000 feet.

4.3 Life Test: Capacitors shall be subjected to a life test of 1000 hours at 140% rated DC working voltage at 85°C. Following life test, the capacitors shall be examined for physical damage, dielectric strength insulation resistance shall exceed 5,000 megohms and the dissipation factor shall meet the initial requirements of this specification. Not more than one failure in 12 units tested will be permitted.

| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ON DECIMALS X±.1 XX±.03 XXX±.010 \| ANGLES ±2° | CODE IDENT. NO. 73905 | SIZE A | DRAWING NO. DD 0945-1 |
|---|---|---|---|
| | SCALE | UNIT WEIGHT | SHEET 4 OF 5 |

REV. A

5.0 MARKING:

The capacitor shall be marked as follows:

Manufacturers name or symbol

4000 pF ± 20%

48,000 VDC Test

N750

Date Code
32,000 VDC Working

6.0 QUALITY ASSURANCE PROVISIONS:

6.1 Test Responsibility:

Unless specified in the contract or purchase order, the supplier is responsible for the performance of all tests.

6.2 Acceptance Inspection:

Acceptance Inspection shall be in accordance with the applicable portions of Group A of MIL-C-20.

| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ON DECIMALS X±.1 XX±.03 XXX±.010 ANGLES ±2° | CODE IDENT. NO. 73905 | SIZE A | DRAWING NO. DD 0945-1 |
|---|---|---|---|
| | SCALE | UNIT WEIGHT | SHEET 5 OF 5 |