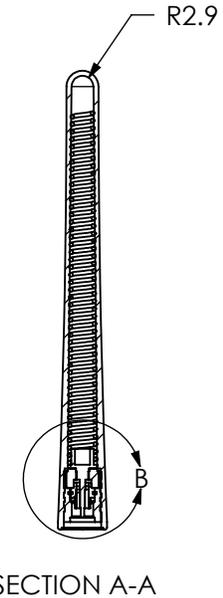
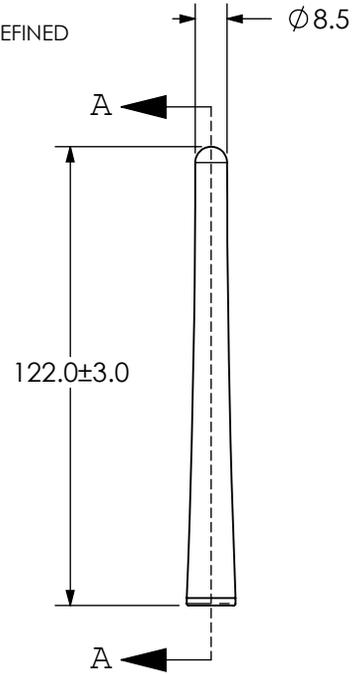
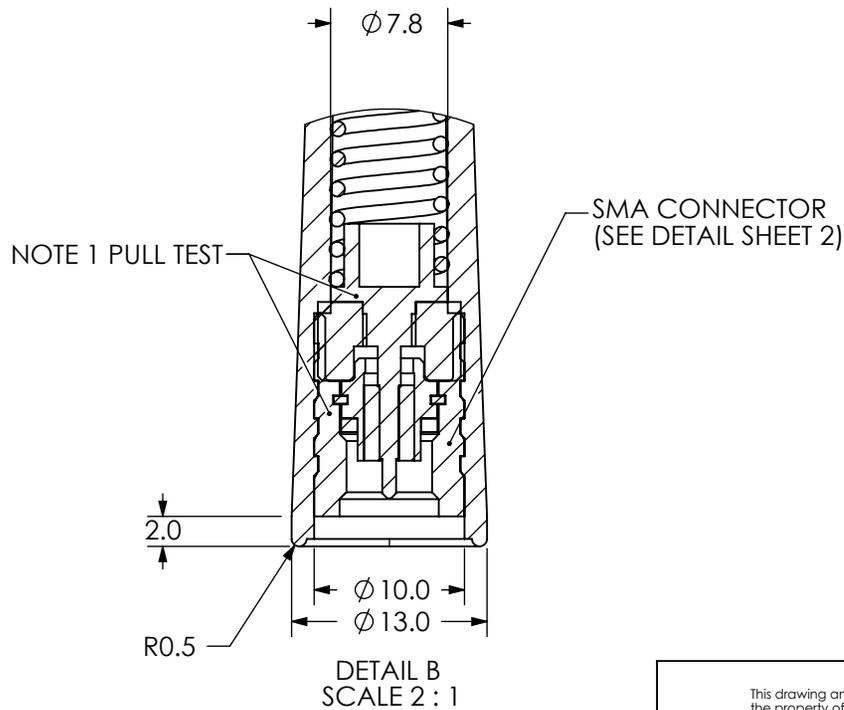


NOTES:

- SPECIFICATIONS:
 CONNECTOR: MALE SMA
 OPERATING TEMP: -20°C TO +60°C
 FLEX TEST: 180° 1.50" ABOVE BASE
 FLEX DURABILITY: 10000 CYCLES AT 1 CYCLE/SEC
 FLEX DURABILITY CRITERIA: NO CRACKS IN SHEATHING OR ELECTRICAL FAILURES AT COMPLETION OF TEST.
 PULL TEST: SMA/COIL INTERFACE TO WITHSTAND 50kg AXIAL LOAD AFTER ASSEMBLY
 TORQUE TEST: 3.12 in-lbs
 IMPEDANCE: 50ohms
 CENTER FREQUENCY: 153MHz
 1dB BANDWIDTH: ±3MHz
 ANTENNA GAIN: -5dB RELATIVE TO AN IDEAL DIPOLE ANTENNA (θ=90°, GROUND PLANE SIZE 30mmx70mm)
 VSWR: 2.0:1 (MAX)
- OVERMOLD MATERIAL: BLACK NEOPRENE, 80 SHORE A DUROMETER
- DIMENSIONS IN MILLIMETERS
- THIS PART SHALL NOT CONTAIN HAZARDOUS SUBSTANCES EXCEEDING LEVELS DEFINED BY EU DIRECTIVE 2002/95/EC (RoHS).

| REVISIONS | | | |
|-----------|--------------------------|----------|-------|
| REV | DESCRIPTION | DATE | ECO |
| G | REMOVE UNDERCUT | 10/23/07 | 48211 |
| H | CHANGE MANUFACTURER CODE | 08/12/08 | 55286 |
| J | ADD MANUFACTURER YEH | 06/20/11 | 82303 |



| | |
|--|--|
| CONFIDENTIAL <small>This drawing and the specifications contained herein are the property of Garmin Ltd. or its subsidiaries and may not be reproduced or used in whole or in part as the basis for manufacture or sale of products without written permission.</small> | |
| TOLERANCE UNLESS OTHERWISE NOTED INCH mm .XX± 0.01 .X± 0.3 .XXX± 0.005 .XX± 0.13 HOLE Ø<1± 0.003 Ø<25± 0.08 ANGLES± 2.0° | APPROVALS DATE DRAWN TAB 10/30/06 CHKD. HJS 10/30/06 PROJ. BDH 10/30/06 MGR. RLS BY SMP 10/31/06 |

| | |
|---|---|
| <h1 style="margin: 0;">GARMIN®</h1> Garmin Ltd. or its subsidiaries c/o Garmin International, Inc. 1200 E. 151st Street Olathe, Kansas 66062 USA | |
| TITLE <h2 style="margin: 0;">VHF Antenna, D-Series</h2> | |
| SIZE A | DWG. NO. 700-00021-00 |
| SCALE 1:2 | SHT 1 OF 3 |
| REV. J | |

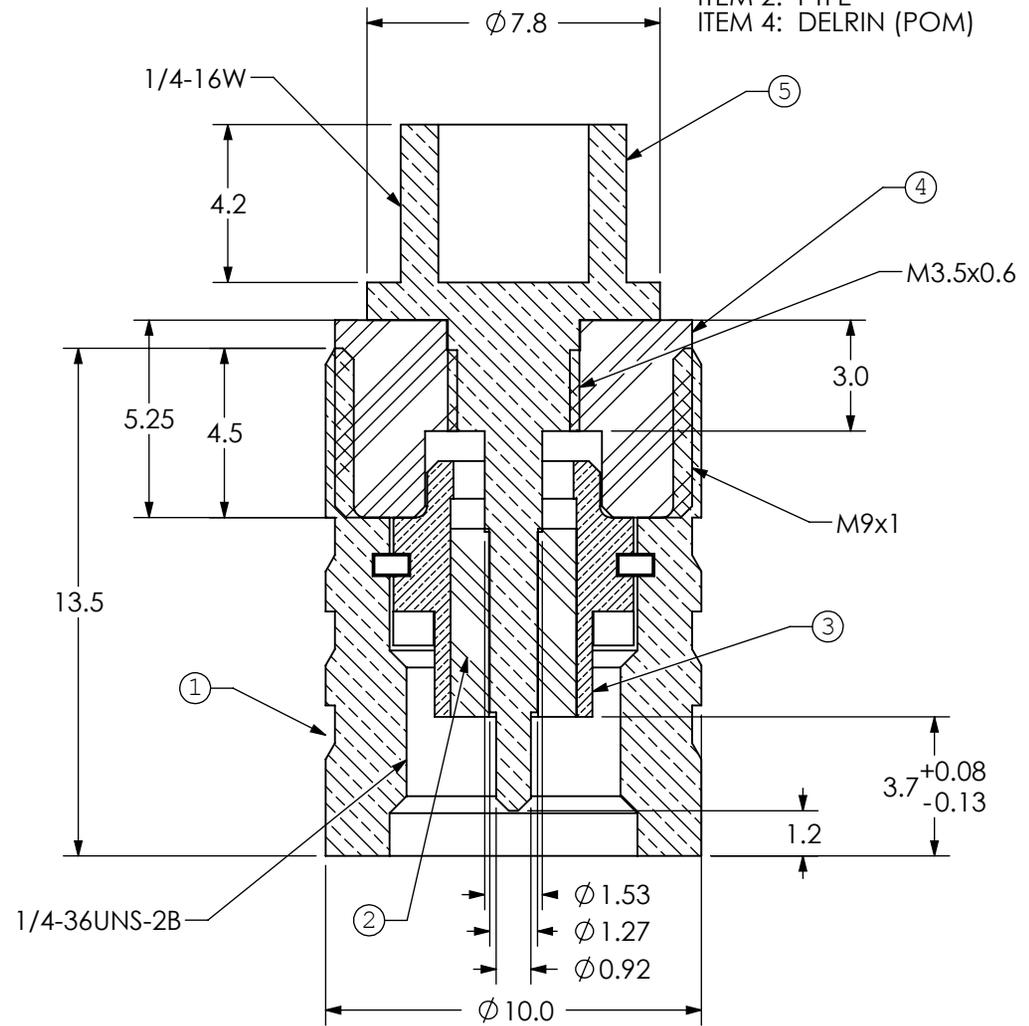
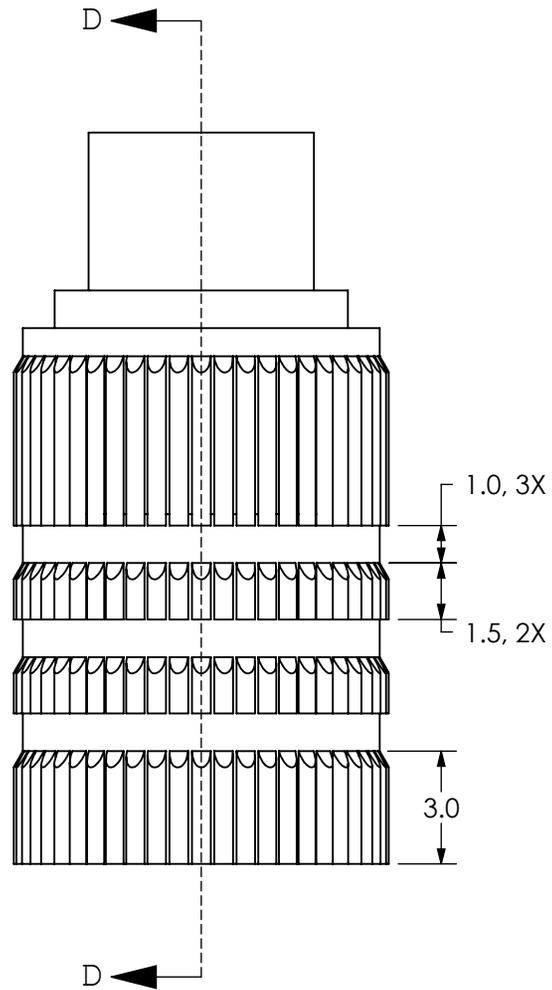
SMA CONNECTOR CONSTRUCTION DETAIL

MATERIALS:

ITEMS 1,3, AND 5: BRASS, AU PLATING

ITEM 2: PTFE

ITEM 4: DELRIN (POM)



| | | | |
|--------------|--|--------------------------|-----------|
| SIZE A | | DWG. NO. 700-00021-00 | REV. J |
| SCALE 5:1 | | SHT 2 | OF 3 |

Approved Manufacturers List

| GPN | MFG Name - Code | Manufacturer Part Number | Notes |
|--------------|--|---------------------------------|--------------|
| 700-00021-00 | SHINE ALPHA ELECTRONIC CO.,LTD - 103934 | HL-153-122-SMA(M) | |
| | YI CHANG HSIANG industrial CO., LTD - 111091 | A-1590-A1 | |