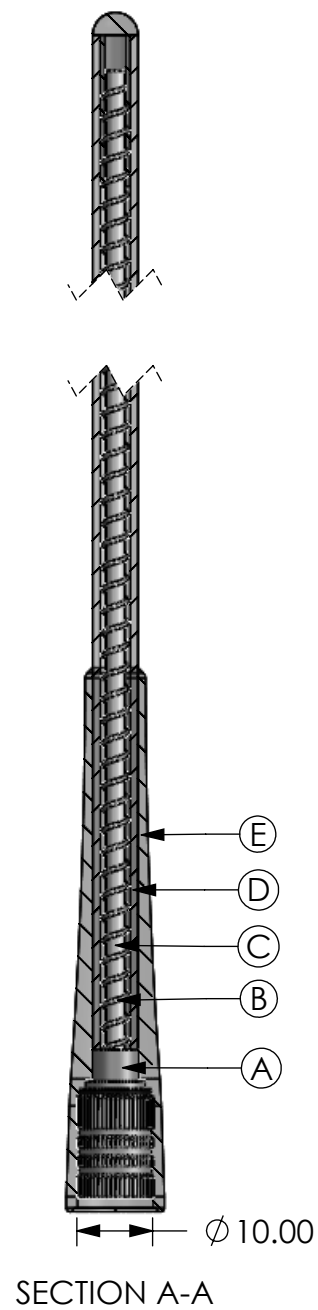




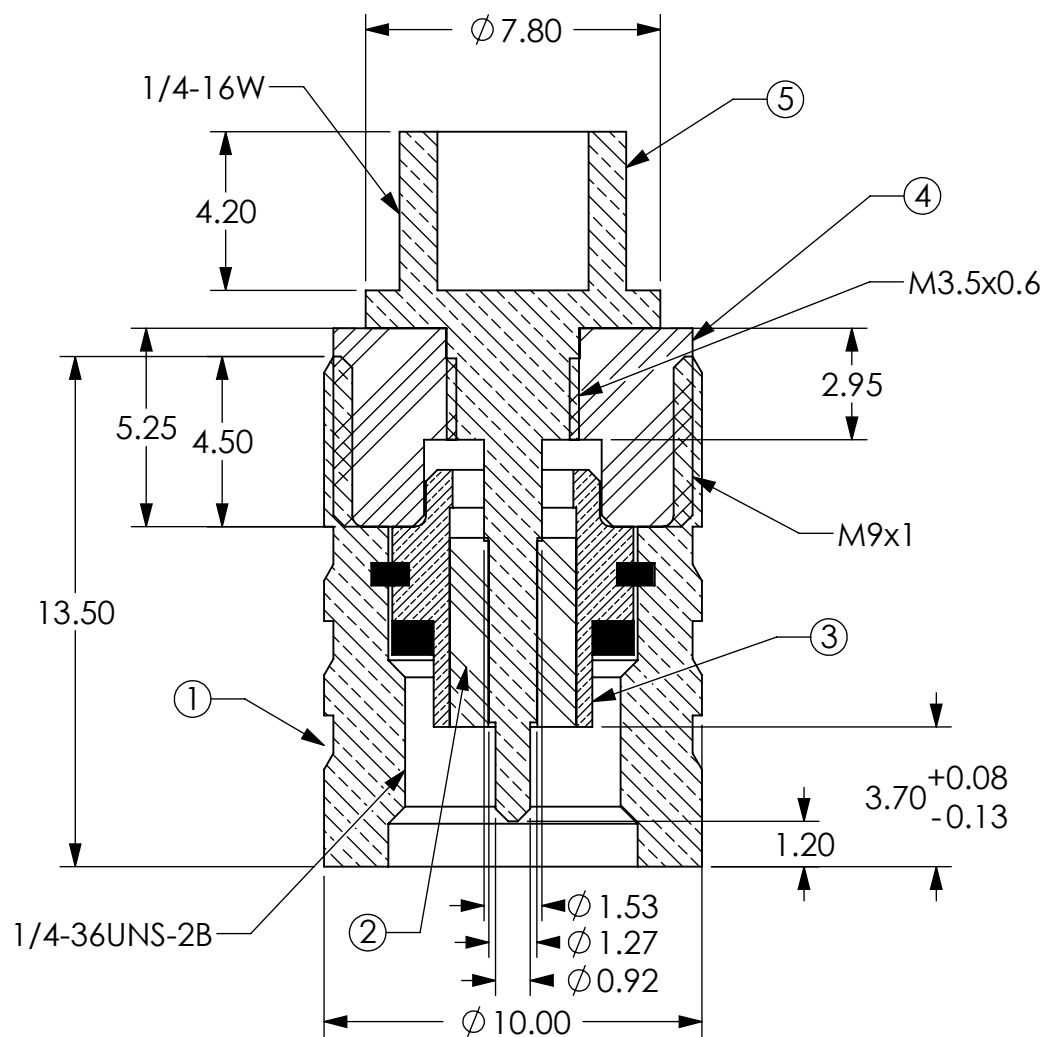
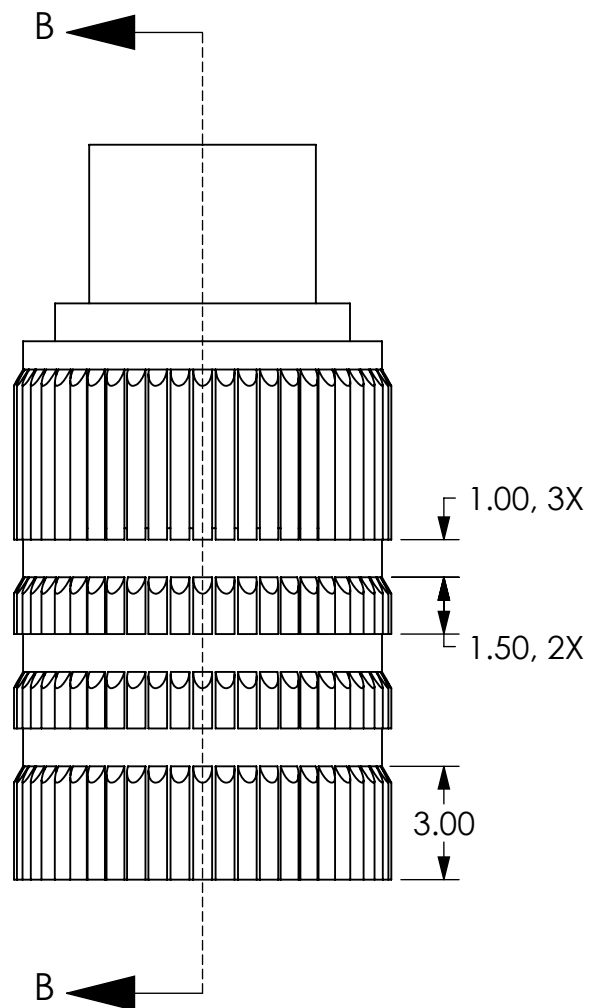
308
COIL PITCH =

Letter	Description	Material (If Applicable)
A	SMA Connector	See sheet 2
B	Wire	Ø0.5 mm Phosphor Bronze C5191
C	Core	Ø2.7±0.1 mm POM (TCM)
D	Jacket	TPU
E	Overmold	Black Elastollan 1185 A (TPU 85 Shore A)

1. SPECIFICATIONS:
CONNECTOR: MALE SMA
OPERATING TEMP: -20°C TO +60°C
FLEX TEST: 180° 100mm ABOVE BASE
FLEX DURABILITY: 10,000 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)
2. DIMENSIONS IN MILLIMETERS
3. THIS PART SHALL NOT CONTAIN HAZARDOUS SUBSTANCES EXCEEDING LEVELS DEFINED BY EU DIRECTIVE 2002/95/EC (RoHS).
4. THIS PART SHALL COMPLY WITH GARMIN BANNED & RESTRICTED SUBSTANCES DOCUMENT GPN 001-00211-00.

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		APPROVALS DATE		TITLE VHF Antenna, Astro, Extended Range	
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± 1.0°		DRAWN NBG 04/08/11			
		CHKD GMS 04/14/11			
		PROJ MGR NJH 04/14/11	SIZE B		
RLS BY MKD 04/15/11		SCALE 1:1	SHT 1 OF 3		

SMA CONNECTOR CONSTRUCTION DETAIL



SECTION B-B

MATERIALS:

ITEMS 1,3, AND 5: BRASS, AU PLATING
ITEM 2: PTFE
ITEM 4: DELRIN (POM)

SIZE A		DWG. NO. 700-00042-00	REV. A
SCALE 5:1		SHT 2	OF 3

Approved Manufacturers List			
GPN	MFG Name - Code	Manufacturer Part Number	Notes
700-00042-00	SINBON ELECTRONICS CO LTD - 6205	A9700683	
	YI CHANG HSIANG industrial CO., LTD - 111091	A-1606-A1	