CONTROL DRAWING

29976H1-X-NNNS(R)

K

NOTES:
1. DESCRIPTION
   HERMETIC CONNECTOR, SOLDER TYPE, H+S Astrolab SMPM-T MALE, THREADED, TO BE USED WITH H+S Astrolab SMPM-T UNITS. (FEMALE-THREAD, H+S Astrolab 29971TCR SERIES, FIG 3).
   SEE CHART FOR DETENT AND PIN OPTIONS.
2. MATERIALS AND FINISHES
   BODY AND CENTER CONDUCTOR,
   IRON NICKEL ALLOY (KOVAR) IAW ASTM F-15 AND F-1466 (MIL-I-23011 CLASS1) UNS K94610
   GOLD PLATED .000050 IN MIN. THK. (1.27 MICRO METERS) PER ASTM B-488, CODE A, TYPE III, OVER
   NICKEL PLATE, .000050 IN MIN. THK. PER SAE-AMS-QQ-N-290, OR ASTM B-689 TYPE 1.
   DIELECTRIC
   CORNING No. 7070 GLASS
   OUTGASSING,
   ASSEMBLY MEETS OR EXCEEDS NASA LOW OUTGASSING REQUIREMENTS.
3. ELECTRICAL CHARACTERISTICS:
   IMPEDANCE
   50.0 Ohms NOMINAL.
   FREQUENCY
   50.0 GHz MAX.
   VSWR
   1.25 : 1 MAX. AT 26.5 GHz MAX.
   1.35 : 1 MAX. AT 40.0 GHZ MAX.
4. SMPM-T INTERFACE MEETS MIL-STD-348.
5. OPERATING TEMPERATURE RANGE
   -55° C TO +125° C.
6. HERMETIC SEAL:
   100% OF CONNECTORS ARE TESTED AND QUALIFIED FOR LEAKAGE RATES LESS THAN 1 X 10E-8 CCM/SEC OF HELIUM UNDER PRESSURE DIFFERENTIAL OF 15.00 PSIG, IAW ASTM E-498 AND MIL-STD-202.

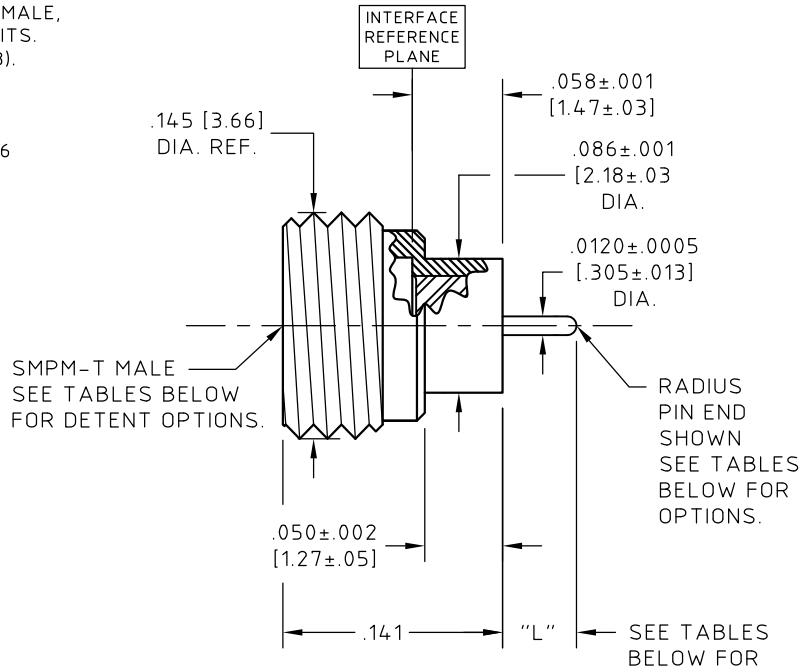

FIGURE 1, OUTLINE
29976H1-X-NNNS

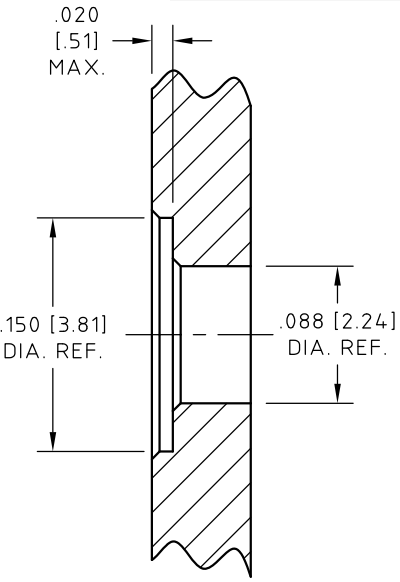

FIGURE 2, REFERENCE ONLY,
TYPICAL SOLDER CUT OUT.

DETAIL OF CUT OUT IS DEFINED BY APPLICATION REQUIREMENTS.

PART NUMBER	DETENT	" L "	PART NUMBER	DETENT	" L "
29976H1-2-030S	FULL	.030	29976H1-2-030R	FULL	.030
29976H1-2-040S	FULL	.040	29976H1-2-040R	FULL	.040
29976H1-2-050S	FULL	.050	29976H1-2-050R	FULL	.050
29976H1-2-060S	FULL	.060	29976H1-2-060R	FULL	.060
29976H1-2-070S	FULL	.070	29976H1-2-070R	FULL	.070
29976H1-2-090S	FULL	.090	29976H1-2-090R	FULL	.090
29976H1-4-030S	S.B.	.030	29976H1-4-030R	S.B.	.030
29976H1-4-040S	S.B.	.040	29976H1-4-040R	S.B.	.040
29976H1-4-050S	S.B.	.050	29976H1-4-050R	S.B.	.050
29976H1-4-060S	S.B.	.060	29976H1-4-060R	S.B.	.060
29976H1-4-070S	S.B.	.070	29976H1-4-070R	S.B.	.070
29976H1-4-090S	S.B.	.090	29976H1-4-090R	S.B.	.090

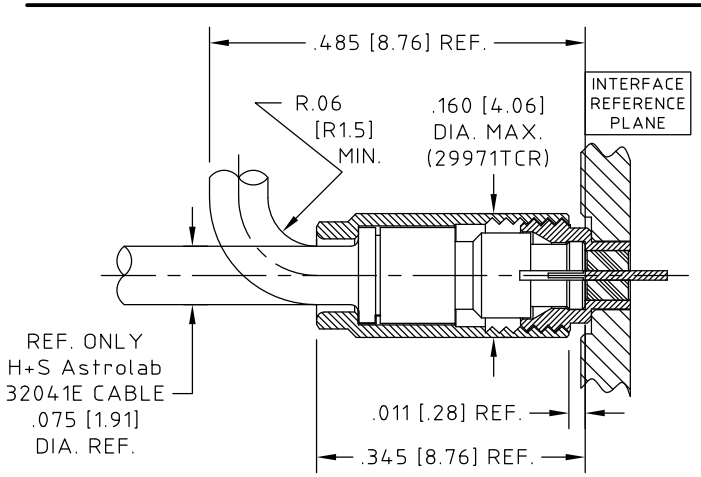

FIGURE 3 SCALE 4 : 1
SHOWN ABOVE IS TYPICAL APPLICATION UTILIZING AN H+S Astrolab SMPM-T FEMALE CONNECTOR (29971TCR SERIES) MATED AND LOCKED.

REV.	DESCRIPTION	DATE	BY	APPROVED
K	ECN No. 18207	05/31/16	EB	

UNLESS OTHERWISE SPECIFIED CONCENTRICITY .004 T.I.R. CORNERS AND FILLETS .005 MAX. RADIUS OR CHAMFER. SURFACE FINISH 63 RMS MICROINCHES OR BETTER.

FRACTIONS	± 1/16
X	± .030
XX	± .015
XXX	± .005
ANGLES	± 1°
DO NOT SCALE DRAWING	

	NAME	DATE
PREP.	GSG	03/03/08
ELEC.		
MECH.	AW	03/05/08
Q.C.		

HUBER+SUHNER Astrolab

TITLE
CONNECTOR, HERMETIC, SMPM-T MALE (SHROUD)

THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28.

SCALE	CODE IDENT.	DWG NO.	REV
8:1	16301	29976H1-X-NNNS(R)	K