

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 1×10^{-8} CCM/SEC OF
HELIUM UNDER PRESSURE DIFFERENTIAL OF 15.00 PSIG,
IAW ASTM E-498 AND MIL-STD-202.

CONTROL DRAWING

29976H1-X-NNNS(R)

K

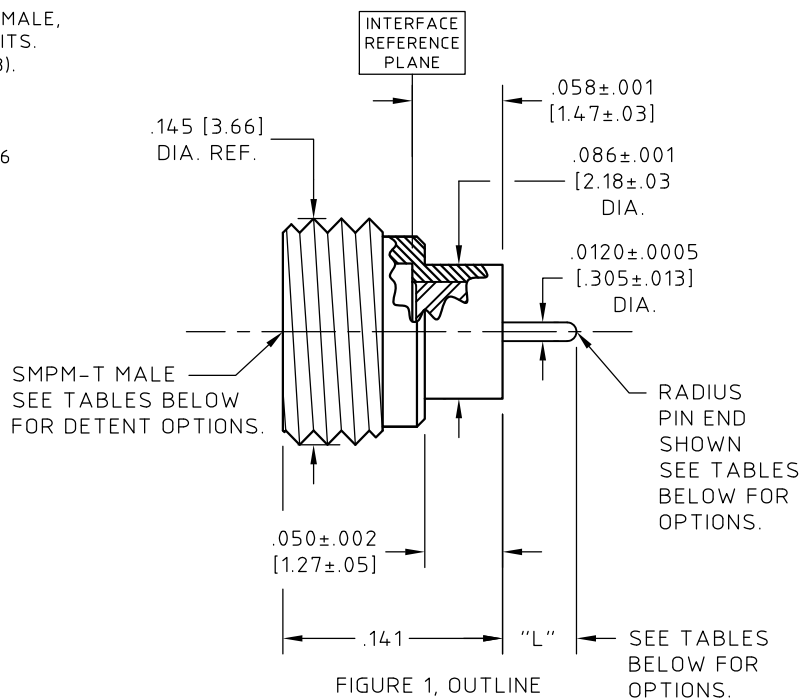


FIGURE 1, OUTLINE
29976H1-X-NNNS

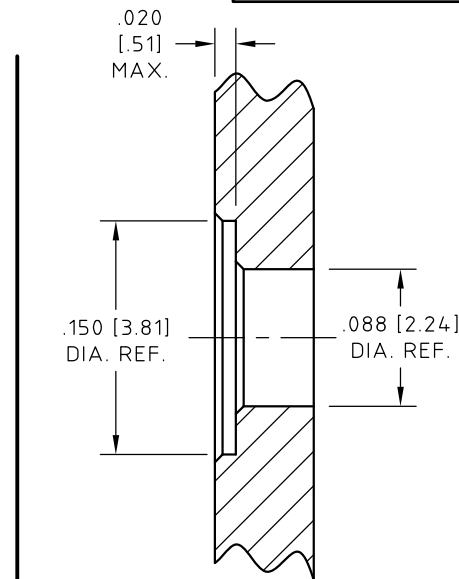


FIGURE 2, REFERENCE ONLY,
TYPICAL SOLDER CUT OUT.

DETAIL OF CUT OUT IS DEFINED
BY APPLICATION REQUIREMENTS.

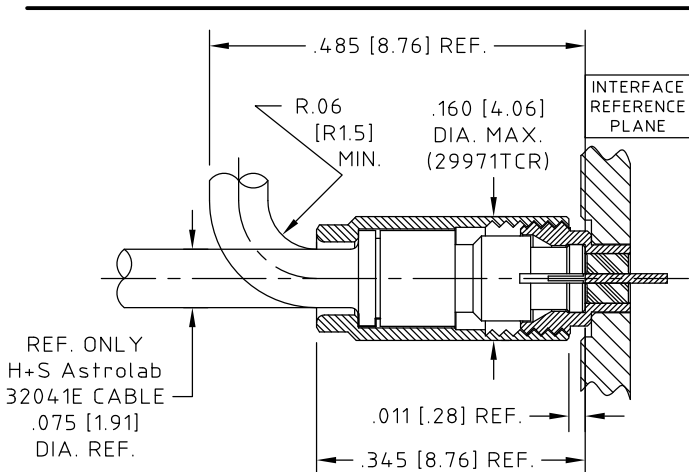


FIGURE 3 SCALE 4 : 1
SHOWN ABOVE IS TYPICAL APPLICATION
UTILIZING AN H+S Astrolab SMPM-T FEMALE
CONNECTOR (29971TCR SERIES) MATED AND LOCKED.

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

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.	

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

TITLE	SCALE	CODE IDENT.	DWG NO.	REV
CONNECTOR, HERMETIC, SMPM-T MALE (SHROUD)	8:1	16301	29976H1-X-NNNS(R)	K

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